Service Manual

PIONEER
The Art of Entertainment

DEH-P725R/EW

ORDER NO.
CRT1812

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER
DEH-P725R EW
DEH-P725R-W EW

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER
DEH-P725 UC
DEH-P725-W UC

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER
DEH-P723 ES
DEH-P625 UC

MULTI-CD CONTROL CD PLAYER WITH FM/AM TUNER
DEX-P88 UC

MULTI-CD CONTROL CD PLAYER WITH RDS TUNER
DEX-P77R EW

COMPACT disc DIGITAL AUDIO

ID LOGIC IS A TRADEMARK OF AND IS MANUFACTURED UNDER LICENSE FROM PRS CORPORATION, N.Y. & H.K.

- **See the separate manual CX-597 (CRT1811) for the CD mechanism description and disassembly.**
- **The CD mechanism employed in this model is one of CX-597 series.**

CONTENTS

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K-FFS. NOV. 1995 Printed in Japan

Using the SRS function (DEH-P725R/EW, P725R-W/EW, P725/UC, P725-W/UC, P723/ES)

This stereo CD player's SRS function provides the pleasure of listening to music of superb depth and breadth in the relaxed atomosphere of your own vehicle.

Notes:

1. The SRS function does not operate when the Tuner is selected as the source.
2. The SRS effects can be changed to match the style of music.

SRS

everything else is only stereo™

1. SAFETY INFORMATION

1.1 DEH-P725/UC,P725-W/UC,P625/UC,DEX-P88/UC

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer.
Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty.
If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1.2 DEH-P725R/EW,P725R-W/EW,DEX-P77R/EW

1. Safety Precautions for those who Service this Unit.

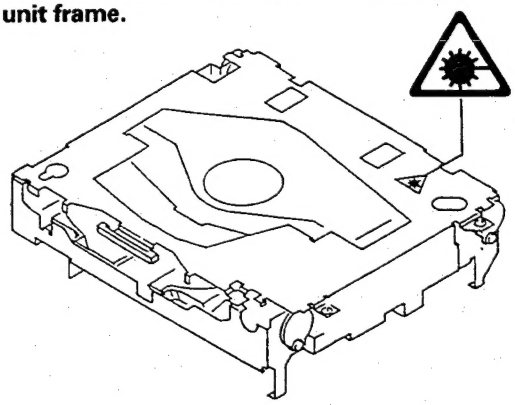
- **When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.**

Caution:

1. **During repair or tests, minimum distance of 13cm from the focus lens must be kept.**
2. **During repair or tests, do not view laser beam for 10 seconds or longer.**

2. A "CLASS 1 LASER PRODUCT" label is affixed to the bottom of the player.

3. The triangular label is attached to the mechanism unit frame.



4. Specifications of Laser Diode

Specifications of laser radiation fields to which human access is possible during service.
Wavelength = 800 nanometers

2. SPECIFICATIONS

General

Power source	14.4 V DC (10.8 — 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	8.0 A
Dimensions	
(mounting size)	178 (W) × 50 (H) × 157 (D) mm
(front face)	188 (W) × 58 (H) × 16 (D) mm
Weight	1.7 kg

Amplifier

Maximum power output	35 W × 4
Continuous power output	22 W × 4 (DIN45324, +B=14.4 V)
Load impedance	4 Ω (4 — 8 Ω allowable)
Preout output level/output impedance	500 mV/ 1 kΩ
Sub-woofer output	
Crossover frequency	50 Hz, 80 Hz, 125 Hz
Crossover slope	–18 dB/oct
Tone controls	
(Bass)	±12 dB (80 Hz)
(Middle)	±12 dB (400 Hz)
(Treble)	±12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz) (volume: –30 dB)

CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz Number of quantization bits: 16; linear
Frequency characteristics	5 — 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz)(IEC-A network)
Dynamic range	90 dB (1 kHz)
Number of channels	2 (stereo)

FM tuner

Frequency range (EW, ES)	87.5 — 108 MHz
Frequency range (UC)	87.9 — 107.9 MHz
Usable sensitivity	11 dBf (1.0 µV/75Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 µV/75Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

MW (AM) tuner

Frequency range (EW, ES)	531 — 1,602 kHz
Frequency range (UC, ES)	530 — 1,710 kHz
Usable sensitivity	18 µV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

LW tuner (EW)

Frequency range	153 — 281 kHz
Usable sensitivity	30 µV (30 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

Note:
Specifications and the design are subject to possible modification without notice due to improvements.

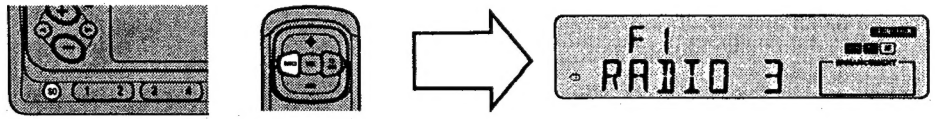
Tuner Operation

Tuner Source and Band

- **Push the SO button or the TUNER button to select Tuner.**

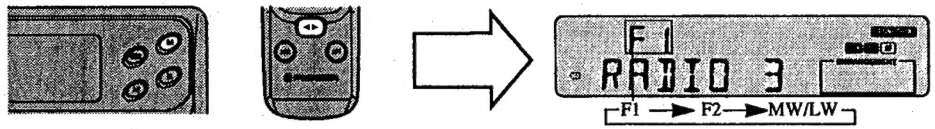
  The program service name or frequency appears on the display.

  ("◯" indicator lights when stereo station selected.)



- **Use the Band button to select the desired band.**

  (F1, F2, MW/LW)



Function Switching

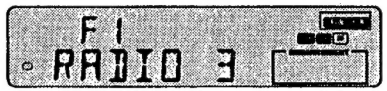
Generally speaking, operation is conducted with Function ON. It is conducted with Function OFF in the following cases:

Tuner:

Preset Tuning
Preset Memory

Multi-CD player:

Disc Number Search

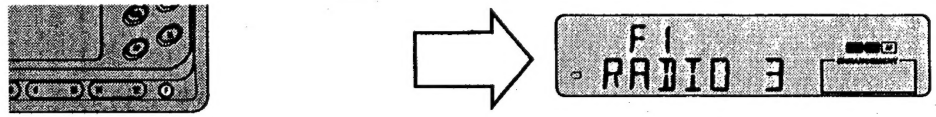


- **Press the F button to switch function OFF.**

  "FUNCTION" disappears.

  Press the F button again to switch Function ON.

  "FUNCTION" appears on the display.

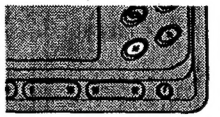


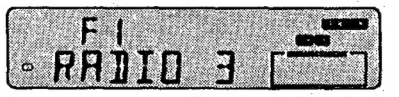
AF Function Switching

This tuner/CD player's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

- **Press the AF button to switch AF OFF.**

  "AF" disappears.
  Press the AF button again to switch AF ON.
  "AF" appears on the display.



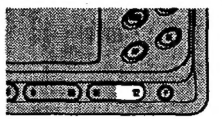


Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

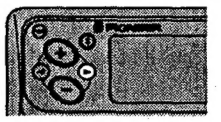
1. **Press button 12 for 2 seconds or longer to switch alternately between the Manual and Seek tuning modes.**

   The "MANU" indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.

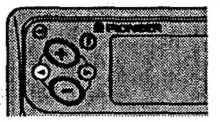


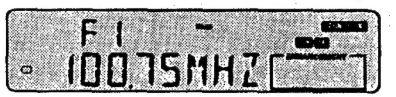
2. **Press the (►) or (►►) button to tune the receiver to a higher frequency.**

   MANU ON (Manual tuning):
   The frequency changes step by step.
   MANU OFF (Seek Tuning):
   The tuner automatically seeks out and receives broadcasting stations.



- **Press the (◄) or (◄◄) button to tune the receiver to a lower frequency.**



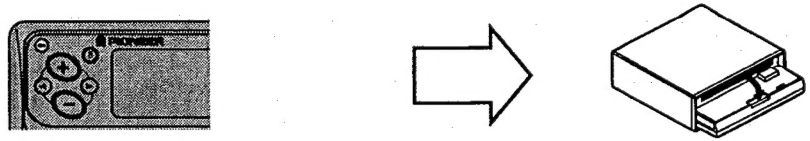


Using the Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

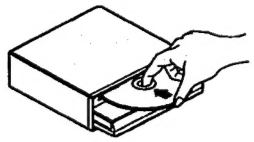
Inserting and Removing Discs

1. **Press the Open button to open the front panel.**

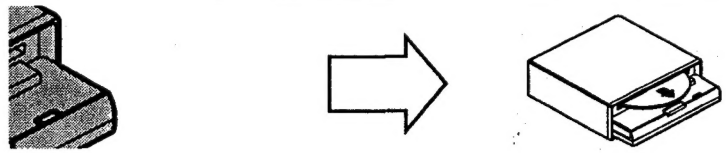


2. **Insert the disc with the recorded (iridescent) surface down.**

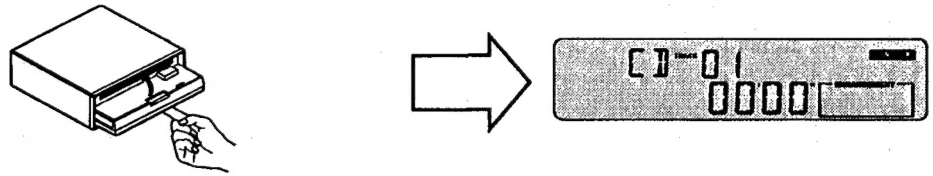
   CD playback begins immediately, whether or not the player is ON or the built-in CD source selected. The track number and playing time are displayed.



- **Press the Eject button on the inside of the front panel to eject any disc loaded in the disc slot.**



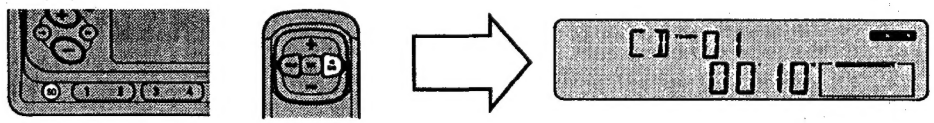
3. **Close the front panel by swinging it gently upward.**



Playing the Built-in CD player

- **To play a CD that is already loaded, press the SO or CD/MCD button with a CD loaded to select the built-in CD player.**

  The built-in CD player is selected only when a CD is loaded.



Using Multi-CD Players

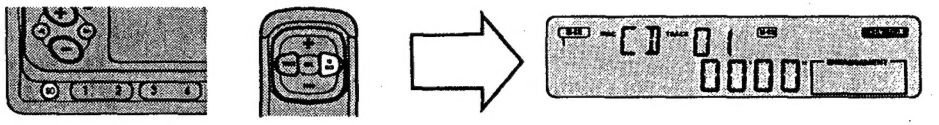
Multi-CD player operation

- **Press the SO button or the CD/MCD button to select the multi-CD player source.**

  The message "M-CD" ("Multi-CD player repeat"), the multi-CD player, disc and track numbers, and the playback time are displayed.

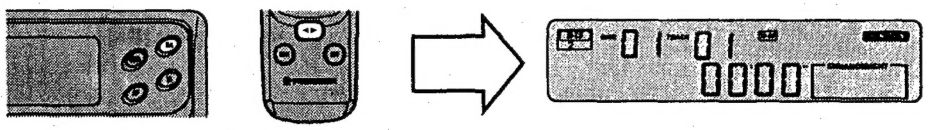
  Notes:

  1. You cannot select the Multi-CD player source if no multi-CD player is installed or no magazine is loaded in an installed multi-CD player.
  2. The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
  3. If the multi-CD player cannot operate properly, an error message such as "ERROR-80" (No disc) is displayed.



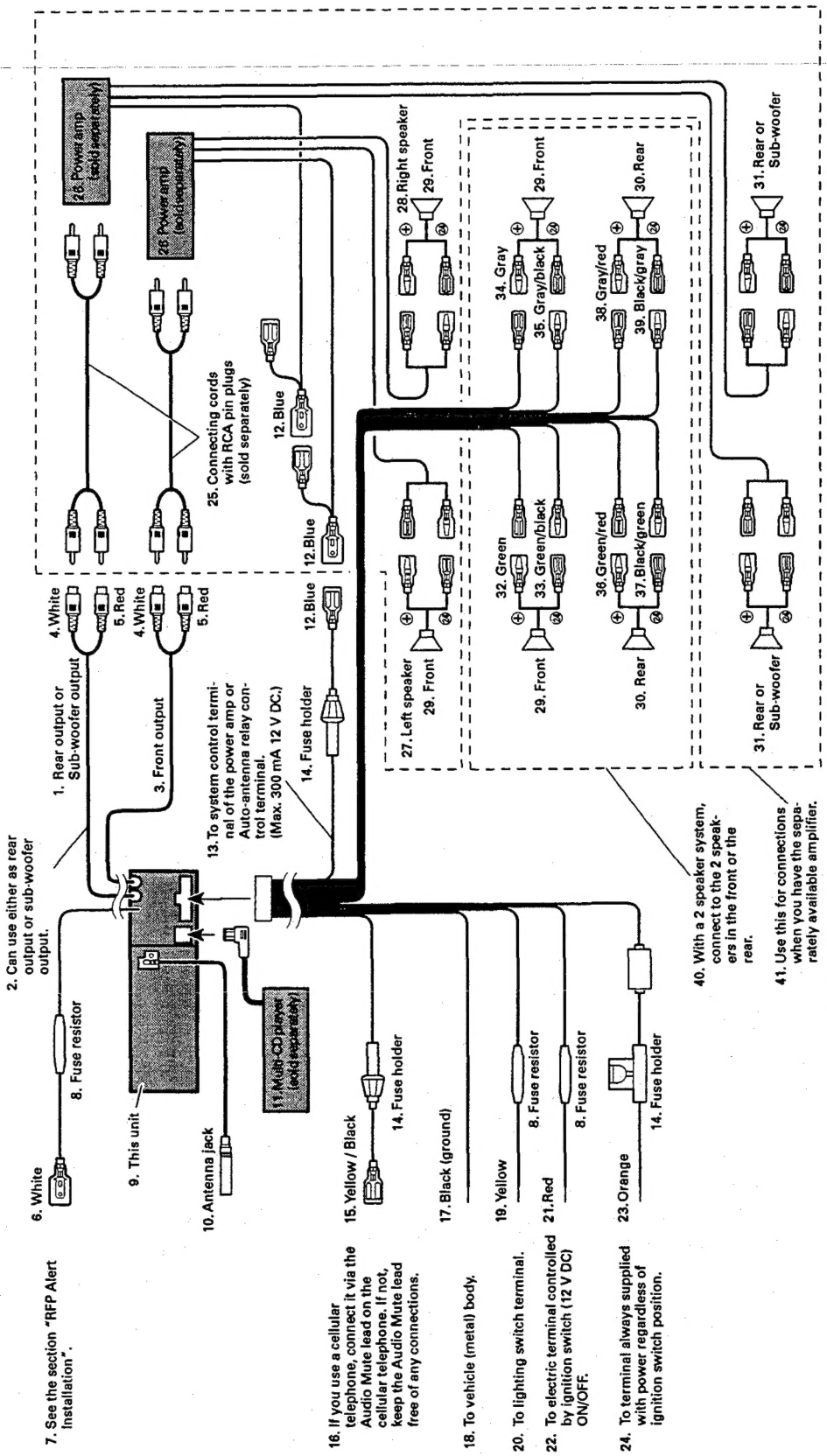
Switching the Multi-CD Player

- **Select the multi-CD player you want to use by pressing the Band button while watching the multi-CD player number display.**



DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● Connection Diagram



4. DISASSEMBLY

● Removing the Case(not shown)

1. Remove the one screw.(Only DEX-P88/UC, P77R/EW) Remove the two screws.(Except for DEX-P88/UC, P77R/EW)
2. Insert and turn a flat screwdriver to remove the case.
3. Raise the case to remove.

● Removing the Detach Grille Assy(not shown)

1. Press the detach button.
2. Remove the detach grille assy.

● Removing the CD Mechanism Module(Fig.1)

1. Remove the four screws A.
2. Disconnect the connector C.
3. Remove the CD mechanism module.

● Removing the Panel Assy(Fig.1)

1. Remove the two screws B.
1. Disconnect the two connectors D.
2. Press the four stoppers at locations indicated by allows, and then pull out the panel assy.

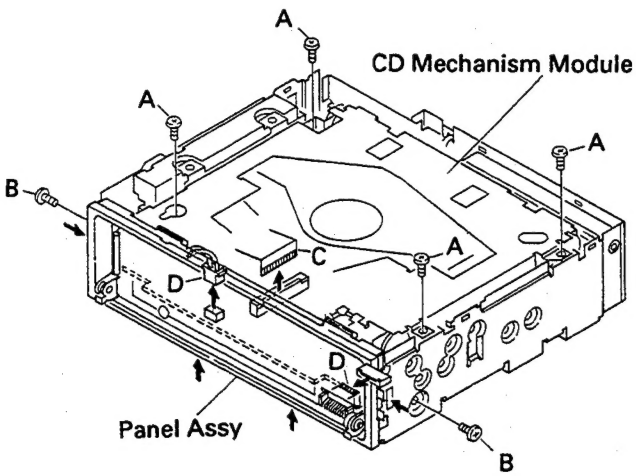


Fig.1

● Removing the Tuner Amp Unit(Fig.2)

1. Remove the two screws A, one screw B, one screw C, the three screws D, the holder and one screw E(only DEX-P88/UC, P77R/EW).
3. Unbend the tabs at three locations indicated by arrows until straight.
3. Remove the tuner amp unit.

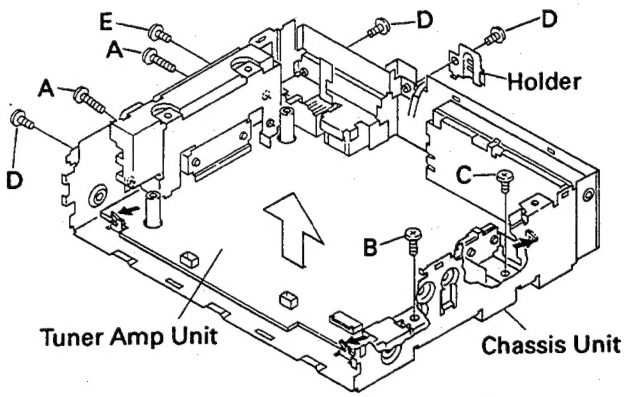


Fig.2

● Removing the Cover Unit(Fig.3)

1. Remove the four screws.
2. Press the three stoppers at locations indicated by allows, and then pull out the cover unit.

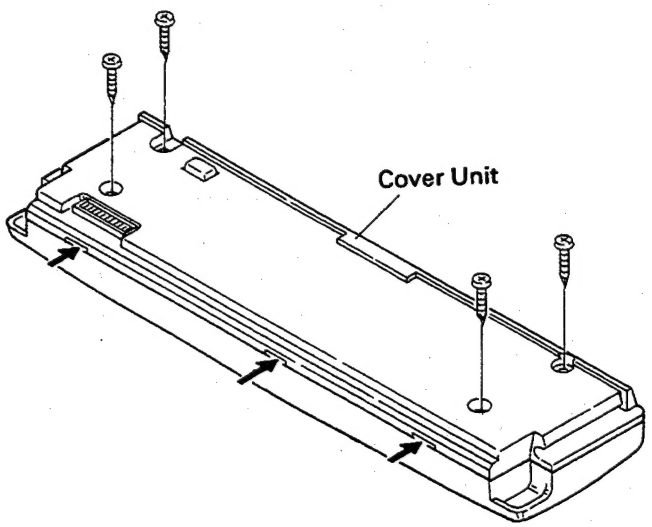


Fig.3

5. ADJUSTMENT

● **Connection Diagram**

NOTE:
Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.
Z: Output impedance of SSG.

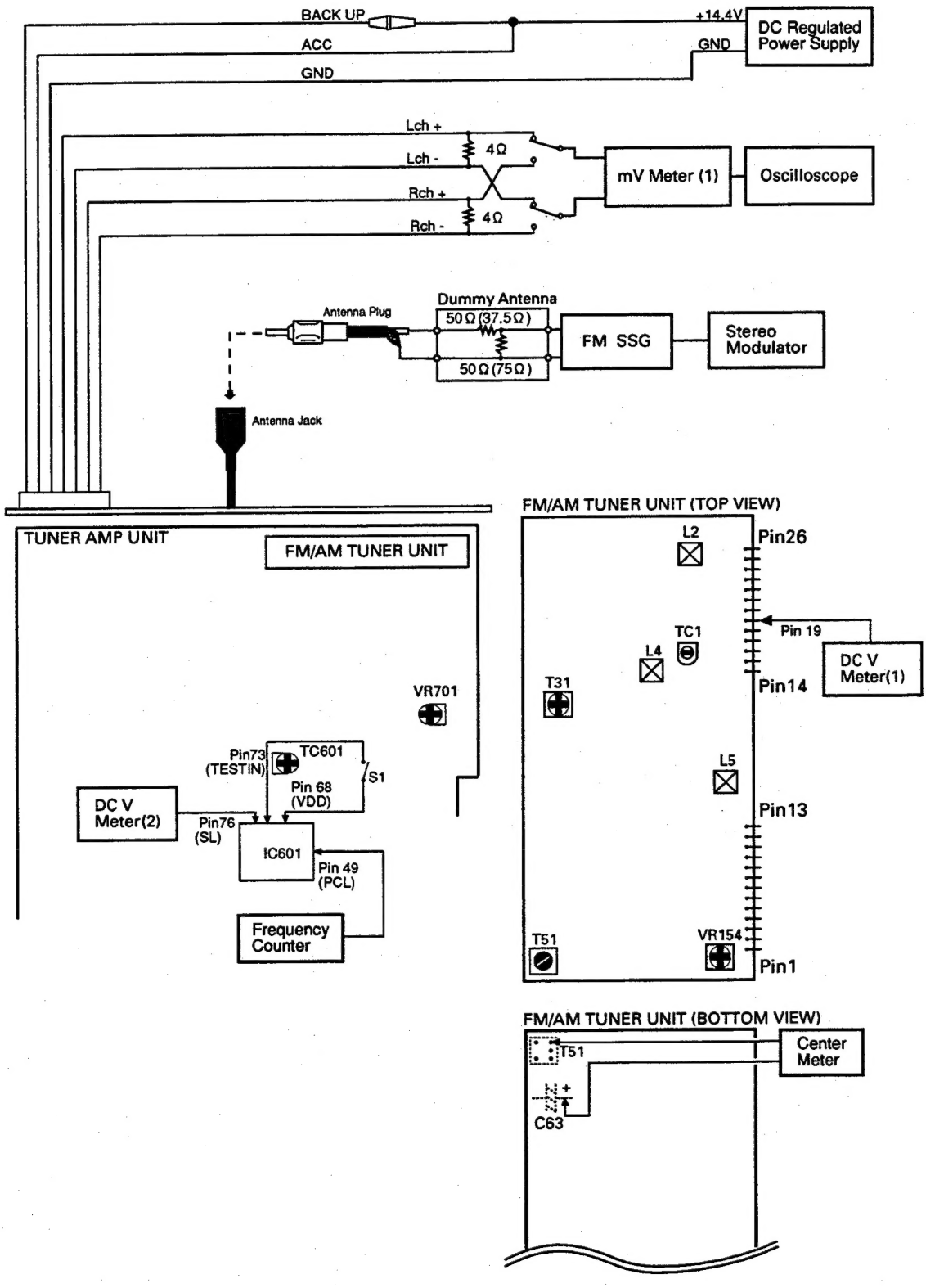


Fig.4

FM ADJUSTMENT(EW, ES MODEL)

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)
S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)
S2:STEREO MOD., 1kHz, L or R=60%(40.50kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed	Adjustment	Adjustment Method
		Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	•••••	•••••	108.0	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
Image	1	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

FM ADJUSTMENT(UC MODEL)

	No.	FM SSG		Displayed	Adjustment	Adjustment Method
		Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	•••••	•••••	107.9	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

RDS SL ADJUSTMENT

	No.	FM SSG		Displayed	Adjustment	Adjustment Method
		Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
	1	104.0 S2	35	104.0	VR701	DC V Meter(2) : 1.75V±0.05V

CLOCK ADJUSTMENT

No.	Adjustment Point	Adjustment Method
1		S1 : ON
2	TC601	Frequency Counter : 1.048576MHz±2Hz

6. TEST MODE

6.1 TEST MODE

1)Precautions

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND.
  If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.
  Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.
  Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.
  If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.

- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.

- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.

- Test mode starting procedure
  Switch ACC, back-up ON while pressing the 4 and 6 keys together.

- Test mode cancellation
  Switch ACC, back-up OFF.

- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit.Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
  *During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
  *The unit will not load a disc.
  When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

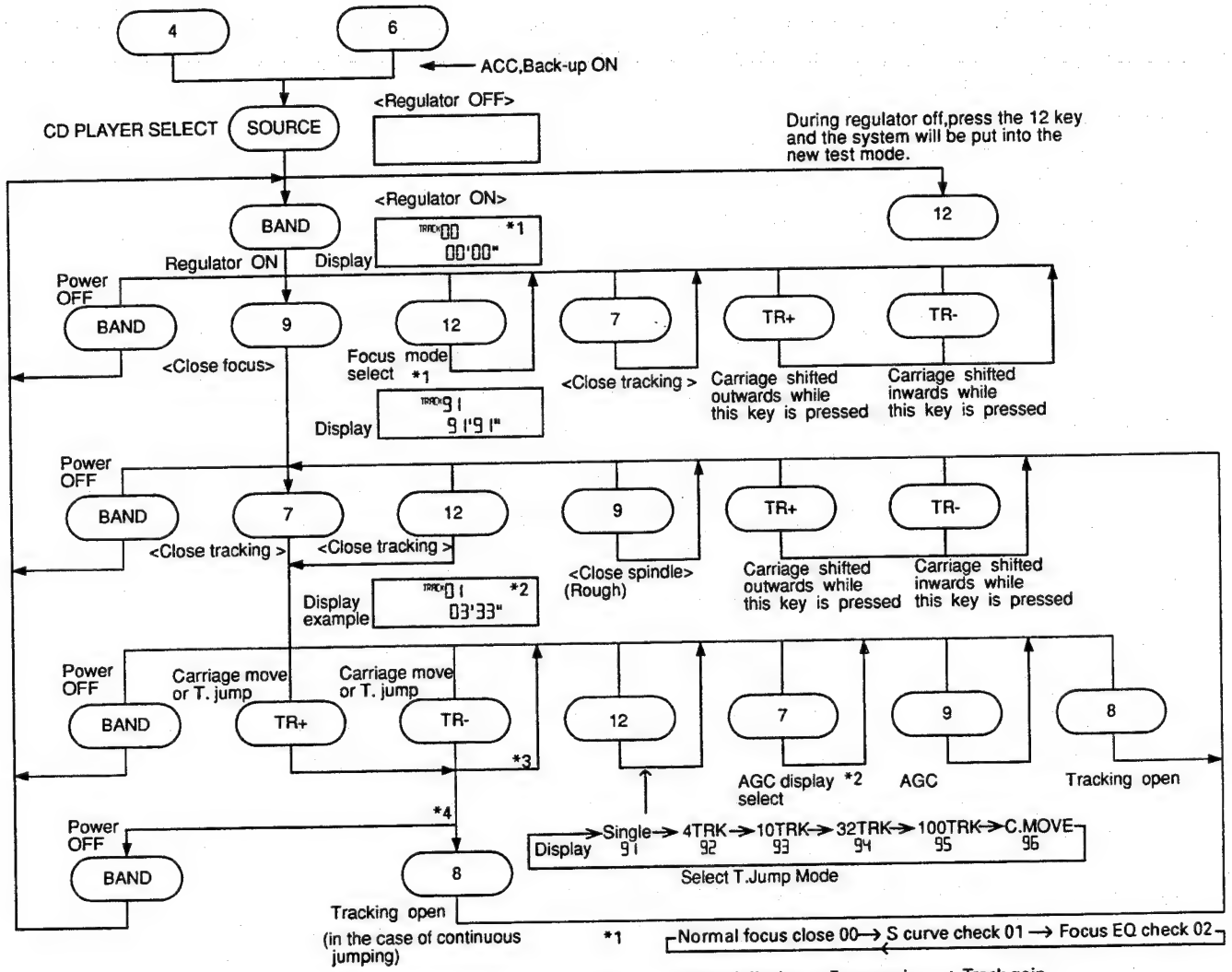
- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.

- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)

- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released.Tracking is closed the moment C-MOVE is released.

- JUMP MODE resets to SINGLE as soon as power is switched off.

● Flow Chart



*1 Normal focus close 00 → S curve check 01 → Focus EQ check 02

*2 Normal display → Focus gain → Track gain

*3 100 TRK jump & carriage move continue only while the keys are pressed

*4 SINGLE/4/10/32 → continuous even after key release

6.2 ERROR NUMBERS AND NEW TEST MODE

● Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

(1) Basic Means of Display

·With ERROR indicated in "MODE" on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC. The MIN and SEC data will be identical.

·Examples of Display ERROR-XX

(2) Error Codes

Error Code	Classification	Description	Cause/Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

"defects" means scratches, dirt etc an the surface of the disc.

● New Test Mode(aging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point)is displayed.

(1) How to enter NEW TEST Mode

See the test mode flow chart Page 13.

(2) Relations of keys between TEST and NEW TEST Modes

Keys	Test Mode		New Test Mode	
	Regulator OFF	Regulator ON	PLAY in progress	Error Occurred, Protection Activated
BAND	Regulator ON	Regulator OFF	—	Time of occurrence / cause of error select
TR+	—	FWD-KICK	TRACK+ / FF	—
TR-	—	REV-KICK	TRACK- / REV	—
7	—	TRACKING CLOSE	SCAN	—
8	—	TRACKING OPEN	MODE	—
9	—	FOCUS CLOSE	ITP	—
12	To New Test Mode Select	FOCUS MODE	AUTO/MANU	—

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

(3) Error Cause (Error Number) Code

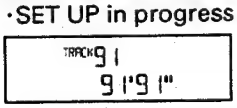
Error Code	Classification	Mode	Description	Cause	Detail
40	ELECTRIC	PLAY	FOK=L 100ms	Put out of focus	Scratch, Stain, Vibration, Servo defect, etc...
41	ELECTRIC	PLAY	LOCK=L 100ms	Spindle unlock	
42	ELECTRIC	PLAY	Subcode unacceptable 500ms	Failed to read subcode	
43	ELECTRIC	PLAY	Sound skipped	Last address memory operated	

(4) Indicating an Operation Status During Setup

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving inwards	10-second time out, Home switch failed
03	Carriage moving outwards	10-second time out, Home switch failed
05	Carriage moving outwards	None
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closure (XSI=L)	Failure to close focus
10,14	Waiting for focus closure (FOK=H)	Failure to close focus
15, 16, 17	Focus closed, Tracking open	Focus disrupted
18	During focus AGC Subcode waiting	Focus disrupted
19	During tracking AGC	Disrupted focus
20	Waiting for MIRR, LOCK or subcode read Carriage closed, SPINDLE=ADAPTIVE	Focus disrupted, MIRR NG, Failure to lock, Failed to read subcode

(5) Example of Display.

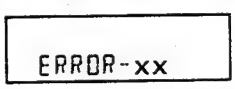
·SET UP in progress



·Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.

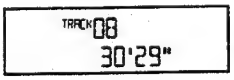
·Protection/Error upon occurrence

(a) Error number indicated



Select the display with the BAND key.

(b) Track number and absolute time indicated



7. IC INFORMATION

● **Pin Functions(PD4635A, PD4636A)**

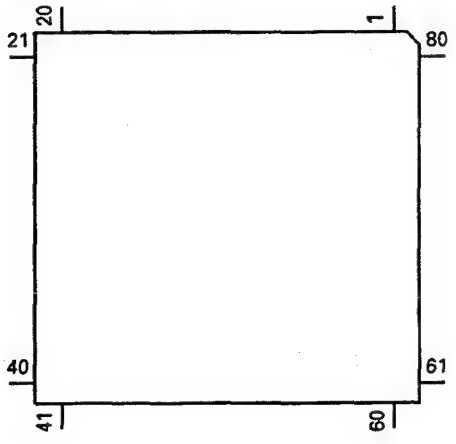
Pin No.	Pin Name	I/O	Format	Function and Operation
1	EJTSNS	I		Disc EJECT position detect
2	DSCSNS	I		Disc detect
3	ISENS	I		Illumination sense input
4	AVSS			A/D converter ground potential
5	TELIN	I		TEL mute signal input
6	NC			Not used
7	AVREF1			D/A converter standard voltage
8	KYDT	I		Key data input
9	DPDT	O	C	Display data output
10	SWVDD	O	C	Grille power supply control output
11	RIDDI	I		Communication data input
12	RIDDO	O	C	Communication data output
13	RIDCK	O	C	Communication clock output
14	RIDRST	O	C	Reset output
15	RIDSEL	O	C	Select output
16	XSI	I		Serial input (CD)
17	XSO	O	C	Serial output (CD)
18	XSCK	O	C	Clock output (CD)
19	XSTB	O	C	Strobe output (CD)
20	CD5VON	O	C	CD +5V power control output (CD)
21	XAO	O	C	CD LSI data discernment control signal output
22	XRST	O	C	Reset output (CD)
23	CONT	O	C	Server driver power control output (CD)
24	VDCONT	O	C	VD power control output (CD)
25	CDMUTE	O	C	CD mute control output (CD)
26	CDEJET	O	C	LOAD motor eject control output
27	CDLOAD	O	C	LOAD motor loading control output
28	LOCK	I	C	Spindle lock detector input
29	FOK	I	C	FOK signal input
30	DRELAY	O	C	External relay output
31	DRSENS	I		Door open/close sense input
32	DOORH	O	C	Door system select output
33	VSS			GND
34	ASENBO	O	C	Slave power supply control output
35	TUNPW	O	C	Tuner power control output
36	tmute	O	N	Tuner mute output
37	CDPW	O	N	CD power control
38	DLED	O	N	Alarm LED output
39	VSRS	O		SRS output
40	MIRR	I		Mirror detector input
41	ILMPW	O	C	Illumination power supply control output
42	CLAMP	I		Disc clamp sense input
43	BUSMUTE	O	C	IP BUS mute output
44	CSENS	I		Flap close sense input
45	PEE	O	C	Beep tone output
46	MUTE	O	C	Mute output
47	SYSPW	O	C	System power supply control output
48	PCK	O	C	PLL clock output
49	PCL	O	C	Clock adjustment output
50	PDO	O	C	Data output for PLL IC
51	PCE	O	C	Chip enable output for PLL IC
52	PDI	I		PLL data input
53	ST	I		Stereo input
54	LCDPW	O	C	LCD power supply control output
55	ADPW	O	C	A/D converter power supply output
56	TX	O	C	IP BUS data output
57	RX	I		IP BUS data input
58	IPPW	O	C	Power supply control output for IP BUS interface IC

Pin No.	Pin Name	I/O	Format	Function and Operation
59	SD	I		SD input
60	$\overline{\text{RESET}}$	I		System reset input
61	RIDRDY	I		Ready input
62	$\overline{\text{BSENS}}$	I		Back up power sense input
63	$\overline{\text{ASENS}}$	I		ACC power sense input
64	$\overline{\text{DSENS}}$	I		Grille detach sense
65	VST	O	C	Strobe pulse output for electronic volume
66	VDT	O	C	Data output for electronic volume
67	VCK	O	C	Clock output for electronic volume
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			GND
72	XT2			Not used
73	TESTIN	I		Test mode IN/test enable
74	AVDD			A/D converter analogue power supply
75	AVREF0	I		A/D converter standard voltage input
76	SL	I		Signal level input
77	SEL0	I		Model select pin
78	PRSBSW	I		PRE OUT/SUB WOOFER select input
79	VDSENS	I		VD short detection input
80	TEMP	I		Temperature detector input

Format	Meaning
C	C MOS
N	N channel open drain

IC's marked by are MOS type.*
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

*PD4635A, PD4636A



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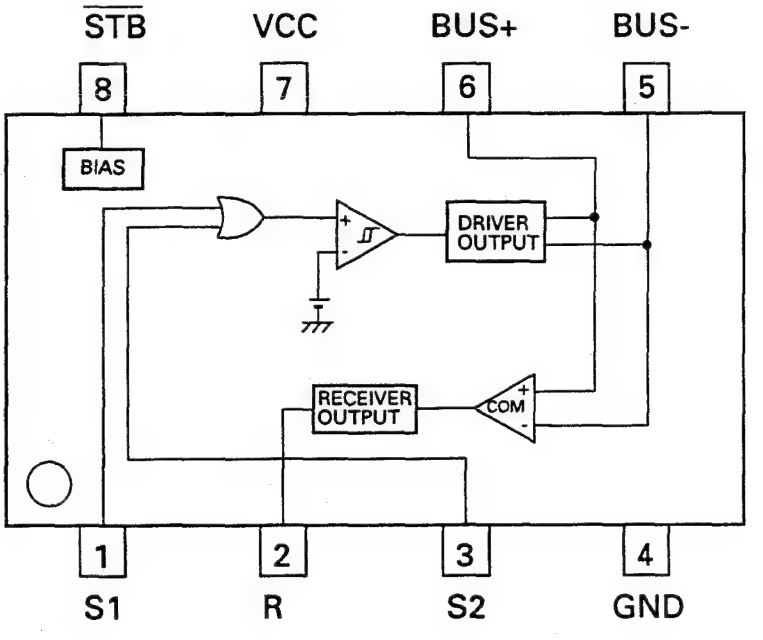
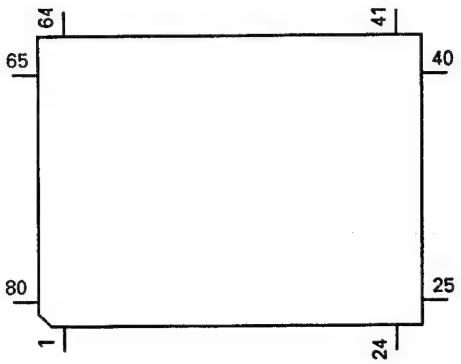


● **Pin Functions(PD6166A)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	VSS			GND
2	X1			Crystal oscillator connection pin
3	X0			Crystal oscillator connection pin
4	$\overline{RST}$	I		Reset
5	MOD1	I		Operation mode appointment input
6	MOD0	I		Operation mode appointment input
7	BACKILL	O	C	Illumination signal output
8	TX	O	C	Serial I/F data output
9	RX	I		Serial I/F data input
10	REM	I		Remote control reception
11,12	NC			Not used
13-16	$\overline{KD}$4-1	O	C	Matrix key return
17-22	$\overline{KS}$6-1	I		Matrix key strobe
23	VCC			5V
24-73	SEG49-0	O	C	LCD segment output
74-77	COM3-0	O	C	LCD common output
78-80	V3-1	I		LCD bias power supply

Format	Meaning
C	C MOS

*PD6166A



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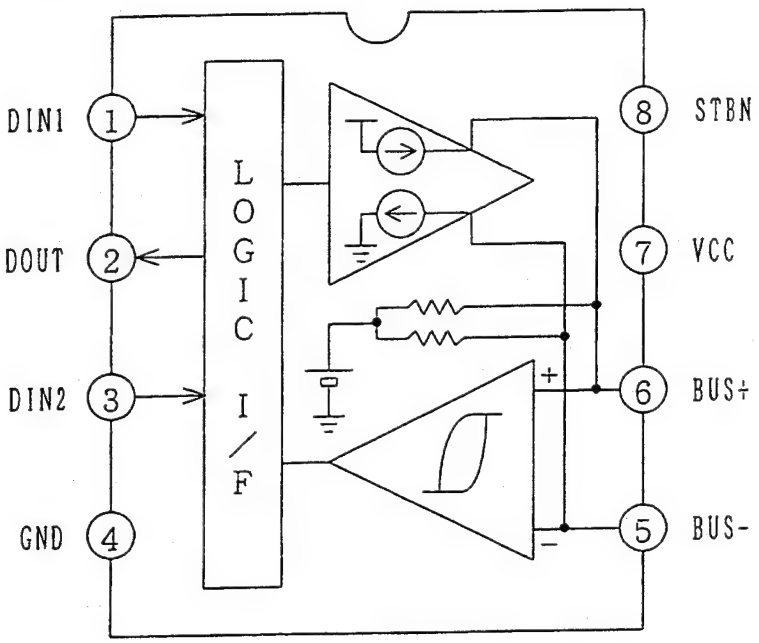
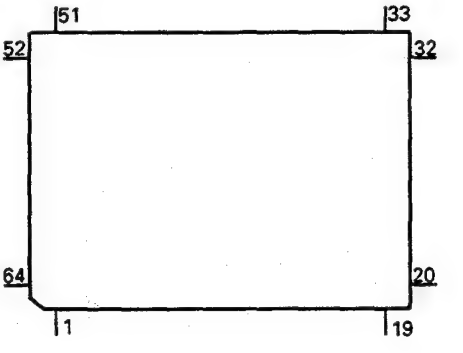


● **Pin Functions(PD6164A)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	PCK	O	N	PLL clock output
2	PDO	O	N	PLL data output
3	PDI	I		PLL data input
4	SL	I		Signal level input
5	NL	I		Noise level input
6	TRGL			Pull down
7	SOUND	I		Audio signal input
8	RMUTE	O	N	RDS mute output
9-11	OPEN			Not used
12	AVCC			Analog power supply
13	AVR			5V power supply
14	AVSS			A/D GND
15	$\overline{\text{IRSEL}}$	I		Select input
16	RCK	I		RDS demodulation clock input
17	RDT	I		RDS demodulation data input
18	$\overline{\text{LDET}}$	I		PLL lock sense input
19	$\overline{\text{RDSLK}}$	I		RDS LK signal input
20	$\overline{\text{IRRST}}$	I		Reset input
21	MOD0	I		Ground
22	MOD1	I		Ground
23	XIN	I		Crystal oscillating element connection pin
24	XOUT	O		Crystal oscillating element connection pin
25	VSS			GND
26	DRST	O	C	Decoder reset output
27	L/S		C	Sensitivity of noise level select
28	$\overline{\text{CURRQ}}$	O	C	PLL-TV-Fix output
29	IRRDY	O	C	Communication ready output
30	RECIVE			Not used
31	CORR			Not used
32	ERROR			Not used
33-39	OPEN			Not used
40	MUTCNT			Not used
41-49	OPEN			Not used
50	VSS			GND
51	TEST	I		Test terminal
52	IRCK	I		Clock input
53	IRDO	O	C	Communication data output
54	IRDI	I		Communication data input
55	PCE	O	C	Chip enable output for PLL IC
56	GD	O	C	Gate drive control output
57	VCC			5V
58	SD	I		SD signal input
59	MDSENS	I		Modulation detect input
60-64	OPEN			Not used

Format	Meaning
C	C MOS
N	N channel open drain

*PD6164A

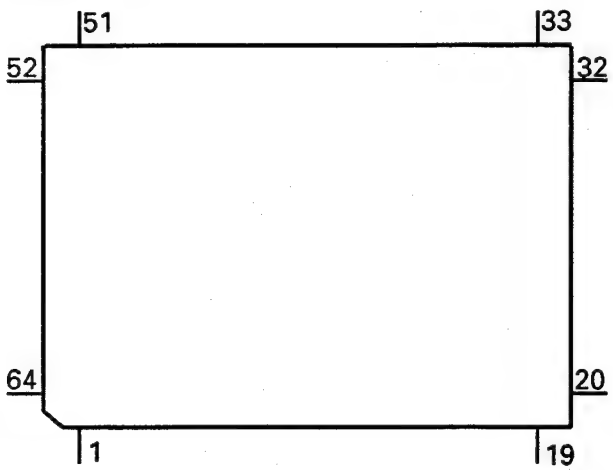


● **Pin Functions(PD6165A)**

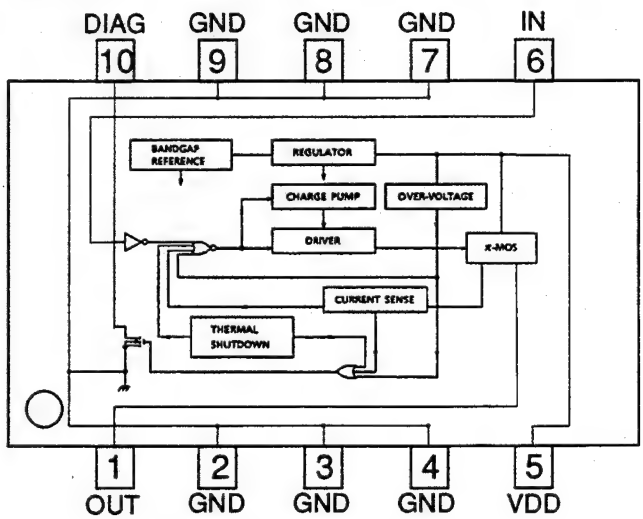
Pin No.	Pin Name	I/O	Format	Function and Operation
1-8	OPEN			Not used
9-11	ADD13-15	O	N	ROM address
12	AVCC			Analog power supply
13	AVR			5V power supply
14	AVSS			A/D GND
15	$\overline{\text{IRSEL}}$	I		Select input
16-19	OPEN			Not used
20	$\overline{\text{IRRST}}$	I		Reset input
21	MOD0			Ground
22	MOD1			Ground
23	XIN	I		Crystal oscillating element connection pin
24	XOUT	O		Crystal oscillating element connection pin
25	VSS			Ground
26-28	OPEN			Not used
29	IRRDY	O	C	Communication ready output
30	$\overline{\text{OE}}$	O	C	ROM output control
31	$\overline{\text{ROMEN}}$	O	C	ROM enable
32,33	ADD17,16	O	C	ROM address
34-41	ADD7-0	O	C	ROM address
42-49	DT7-0	I		ROM data input
50	VSS			Ground
51	TEST	I		Test terminal
52	$\overline{\text{IRSCK}}$	I		Communication clock input
53	IRDO	O	C	Communication data output
54	IRDI	I		Communication data input
55,56	OPEN			Not used
57	VCC			5V
58,59	Open			Not used
60-64	ADD8-12	O	N	ROM address

Format	Meaning
C	C MOS
N	N channel open drain

*PD6165A



TPD1018F



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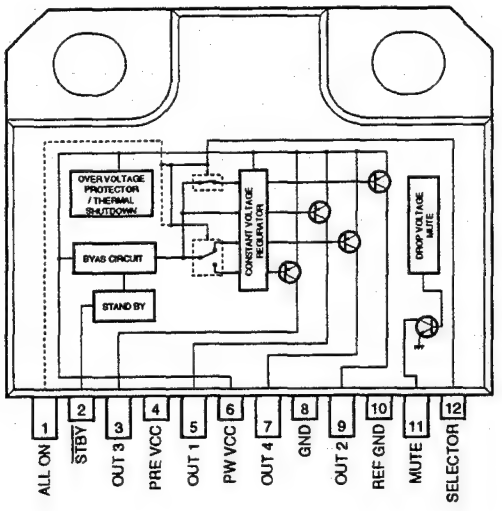

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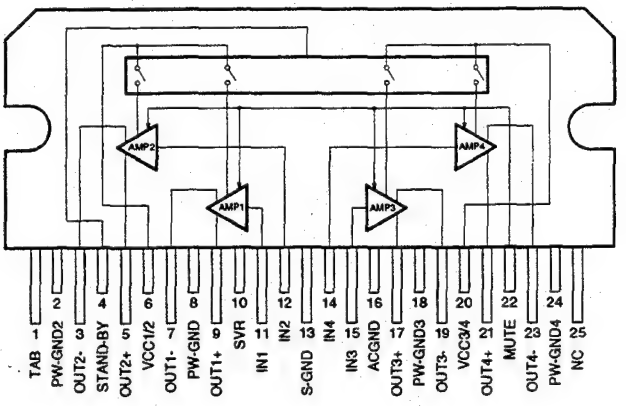
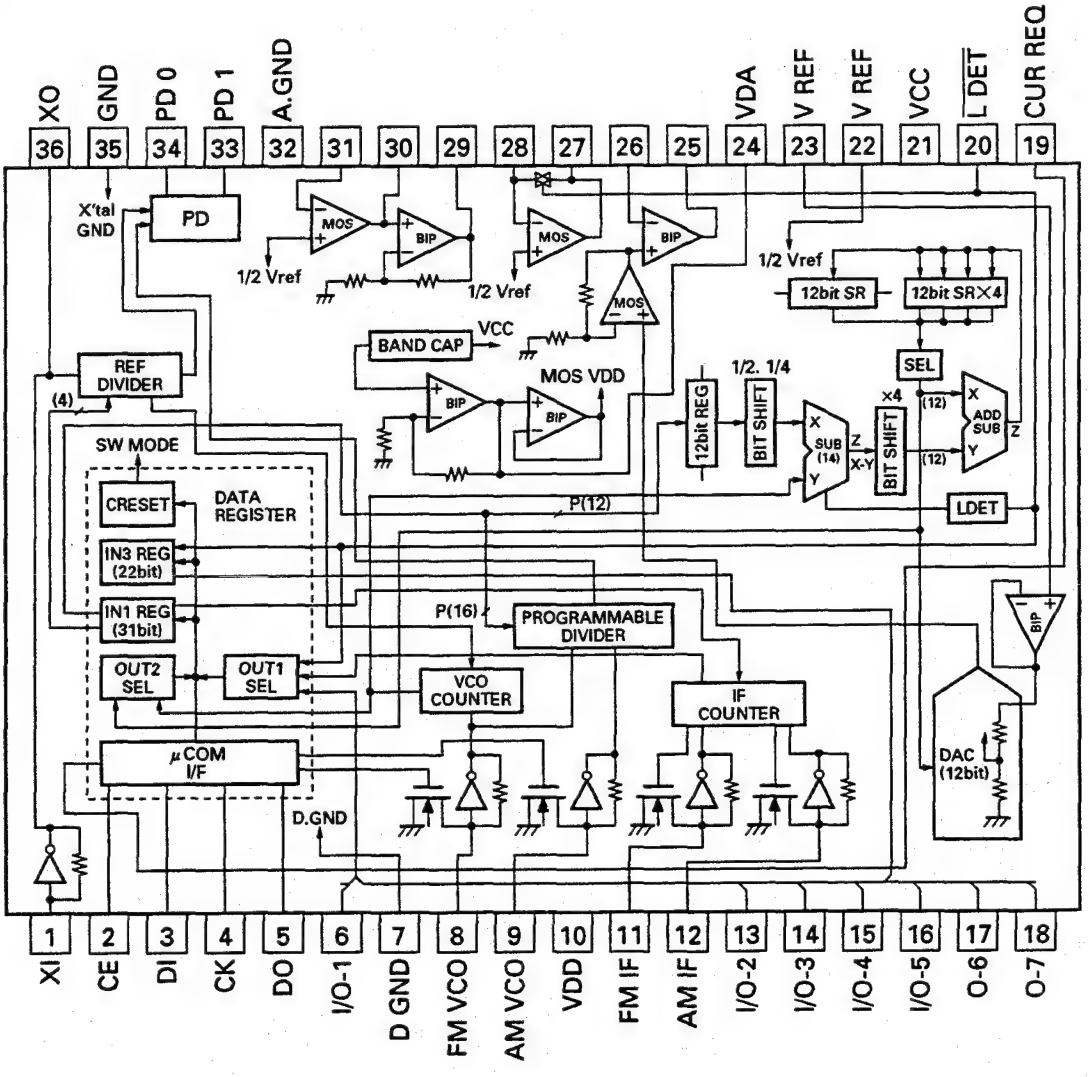


*PM2004A



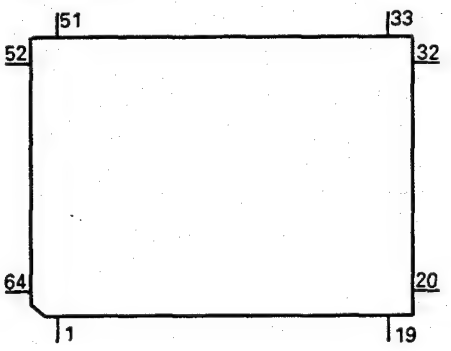
● **Pin Functions(PM0008AF)**

Pin No.	Pin Name	I/O	Format	Function and Operation
1	SWOUT_L	O		Selector and sound scape output
2	LOUD_L			Loudness
3	VRIN_L	I		Main volume input
4	TRE-CNT_L			Treble control
5	TONEOUT_L	O		Tone control output
6	FADERIN_L	I		Pre-fader input
7	MID-CNT_L			Middle control
8	MID-L_L			Inductor terminal
9	MID-DIF_L	I		Inductor terminal
10	BASS-CNT_L			Bass control
11	BASS-L_L			Inductor terminal
12	BASS-DIF_L	I		Inductor terminal
13	FMIN_L	I		Main input (front)
14	RMIN_L	I		Main input (rear)
15	MFOUT_L	O		Main output (front)
16	MROUT_L	O		Main output (rear)
17	PFOUT_L	O		Pre-output (front)
18	PROUT_L	O		Pre-output (rear)
19	PRE-OUT_L	O		Pre-output (fader)
20	FIE_L			Front image enhancer control
21	DVCC			Power supply (digital)
22	MUTE	O	C	System mute output
23	STB	O	C	LSI Strobe output
24	CLK	I		Master clock input
25	DATA	I		Serial data input
26	CT			Time select
27	DGND			Digital circuit GND
28	C1			Sub woofer LPF select
29	C3			Sub woofer LPF select
30	C2			Sub woofer LPF select
31	LPFOUT			Sub woofer LPF select
32	FIE_R			Front image enhancer control
33	PRE-OUT_R	O		Pre-output (fader)
34	PROUT_R	O		Pre-output (rear)
35	PFOUT_R	O		Pre-output (front)
36	MROUT_R	O		Main output (rear)
37	MFOUT_R	O		Main output (front)
38	RMIN_R	I		Main input (rear)
39	FMIN_R	I		Main input (front)
40	BASS-DIF_R	I		Inductor terminal
41	BASS-L_R			Inductor terminal
42	BASS-CNT_R			Bass control
43	MID-DIF_R	I		Inductor terminal
44	MID-L_R			Inductor terminal
45	MID-CNT_R			Middle control
46	FADERIN_R	I		Pre-fader input
47	TONEOUT_R	O		Tone control output
48	TRE-CNT_R			Treble control
49	VRIN_R	I		Main volume input
50	LOUD_R			Loudness
51	SWOUT_R	O		Selector and sound scape output
52	IN4_R	I		Sound scape volume input
53	IN3_R	I		Selector input
54	IN2_R	I		Selector input
55	IN1_R	I		Selector input
56	AVCC			Power supply (analogue)
57-59	NC			Not used
60	VREF			Noise cut terminal

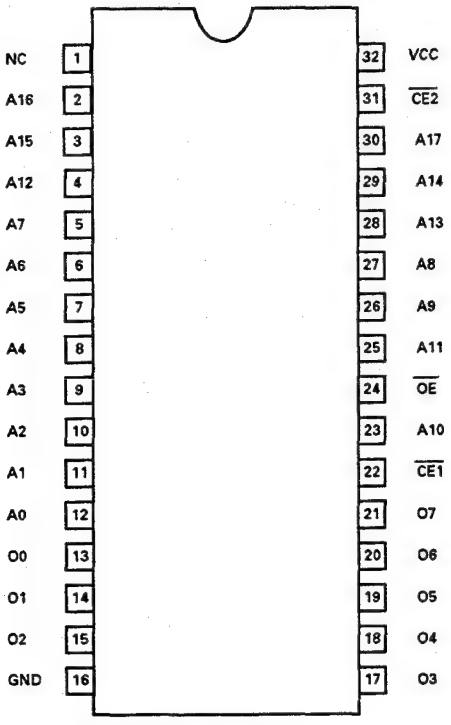
Pin No.	Pin Name	I/O	Format	Function and Operation
61	IN1_L	I		Selector input
62	IN2_L	I		Selector input
63	IN3_L	I		Selector input
64	IN4_L	I		Sound scape volume input

Format	Meaning
C	C MOS

*PM0008AF

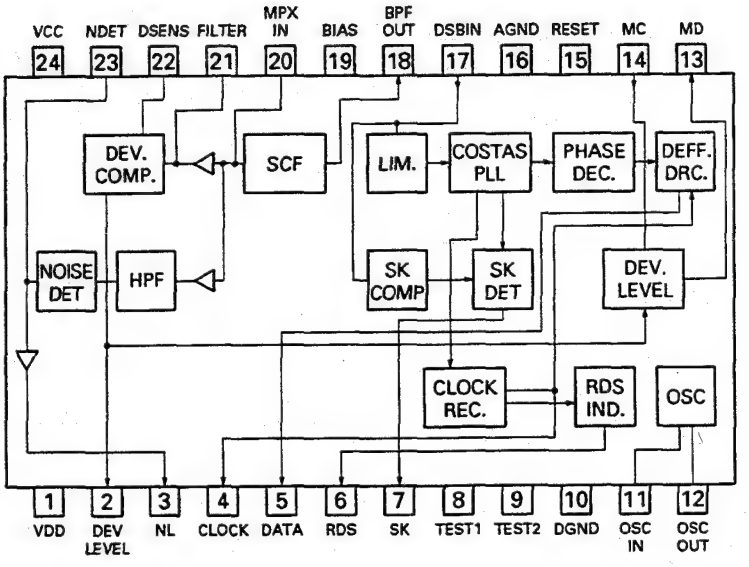


*PD4633A



A0-A17:Address input
O0-O7 :Data output
CE1,2 :Chip enable input
OE :Output enable input

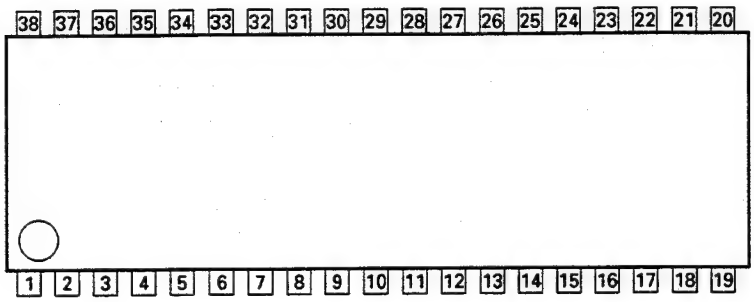
*PMW001A



● **Pin Functions (UPC2572GS)**

Pin No.	Pin Name	I/O	Function and Operation
1	EFM-IN	I	EFM comparator input
2	AGC-OUT	O	AGC amplifier output
3	C. AGC		Connects AGC peak detection condenser
4	RF-IN	I	RF signal DC component cut input
5	RF-OUT	O	RF amplifier output
6	RF-	I	RF amplifier inverted input
7	C1, 3T		Connects RF3T component detection condenser
8	C2, 3T		Connects RF3T component detection condenser
9	Vcc		Power supply
10	A	I	A signal input
11	C	I	C signal input
12	B	I	B signal input
13	D	I	D signal input
14	F	I	F signal input
15	E	I	E signal input
16	PD	I	APC amplifier input
17	LD	O	APC amplifier output
18	LDON	I	Laser diode ON/OFF input
19	VREF-OUT	O	Reference voltage output
20	VREF-IN	I	Reference voltage input
21	DET-OUT	O	Vibration detection circuit output
22	DET-IN	I	Vibration detection circuit input
23	TE-OUT2	O	Tracking error amplifier output (fourfold gain)
24	TE-OUT1	O	Tracking error amplifier output (singlefold gain)
25	TE-	I	Tracking error amplifier inverted input
26	GND		GND
27	FE-	I	Focus error amplifier inverted input
28	FE-OUT	O	Focus error amplifier output
29	C.FE	I	Focus error signal DC component cut input
30	3T-OUT	O	RF3T component output
31	MIRR	O	MIRR signal output
32	RFOK	O	RFOK signal output
33	DEFECT	O	DEFECT signal output
34	C. DEF		Connects DEFECT signal detection condenser
35	EFM-OUT	O	EFM comparator output
36	ASY	I	EFM comparator level input
37	TE-BAL	I	Tracking balance control
38	FE-BAL	I	Focus balance control

UPC2572GS

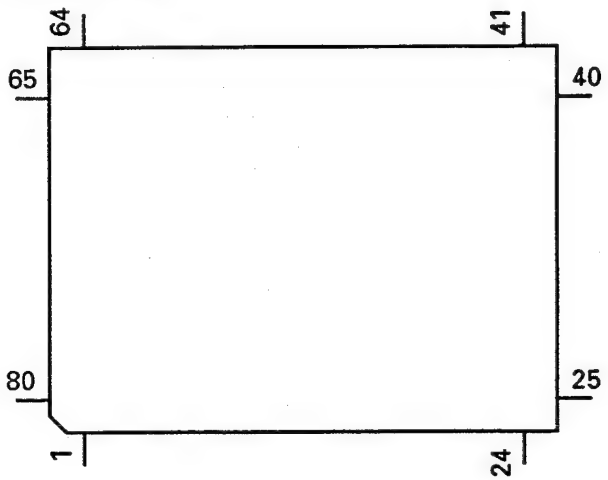


● **Pin Functions (UPD63702GF)**

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	$\overline{RST}$	I	System reset input pin
3	AO	I	Microcomputer interface AO="L": $\overline{STB}$ active and set to address register AO="H": $\overline{STB}$ active and set to parameter
4	$\overline{STB}$	I	Signal to latch serial data within the LSI
5	$\overline{SCK}$	I	Clock input pin to input and output serial data
6	SO	O	Outputs serial data and status signal
7	SI	I	Serial data input pin
8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
10	XTAL	I	Crystal oscillator connection pin
11	$\overline{XTAL}$	O	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	O	Right channel analog audio data output pin
15	R-	O	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	O	Left channel analog audio data output pin
19	L+	O	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	O	Flag output pin to indicate that audio data currently being output consists of noncorrectable data
23	WDCK	O	Pin to output double the frequency of LRCK
24	C16M	O	Pin to output the clock
25	EMPH	O	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	I	Input pin for serial audio data
27	DOUT	O	Output pin for the serial audio data
28	SCKO	O	Output pin for the clock for the serial audio data
29	LRCK	O	Signals to distinguish the right and left channels of the audio data output from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	O	Output pin for the digital audio interface data
31	CTLV	I	Oscillation control pin for high-frequency clock generation VCO used for the digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	O	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	VCO	I	Input pin for the inverter
35	$\overline{VCO}$	O	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	O	Pin for monitoring the bit clock
38	LOCK	O	Indicates "H" when the synchronized pattern detection signal matches the frame counter output at the EFM recovery modulation, and "L" when they don't match
39	WFCK	O	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame (approx. 7.35kHz)
40	RFCK	O	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame (approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	I	Test pins
44,45	TM2, TM4	I	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	I	Test pins
50,51	C1D1, C1D2	O	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	O	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	O	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	O	The signal indicates the beginning of the subcode block. The SFSY signal is output at high level every 98 times
58	SBSO	O	Output pin for the subcode data

Pin No.	Pin Name	I/O	Function and Operation
59	SBCK	I	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	O	Output pin for the spindle drive
62	SD	O	Output pin for the sled drive
63	TD	O	Output pin for the tracking drive
64	FD	O	Output pin for the focus drive
65	FBAL	O	Output pin for the focus balance control
66	TBAL	O	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	I	Switches coefficient banks for the tracking filter
69	EFM	I	Input pin for the EFM signal
70	HOLD	I	Input pin for the hold control signal
71	RFOK	I	Input pin for the RFOK signal
72	MIRR	I	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74,75	VR2,1	I	The signal input through these pins is digitized to 8-bit by the A/D converter, which by operation of the assigned register, can be read into the microcomputer
76	FE	I	Inputs a focus-error signal from the RF amplifier
77	TE	I	Inputs a tracking-error signal from the RF amplifier
78	TEC	I	Input pin for the tracking comparator
79	REFOUT	O	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

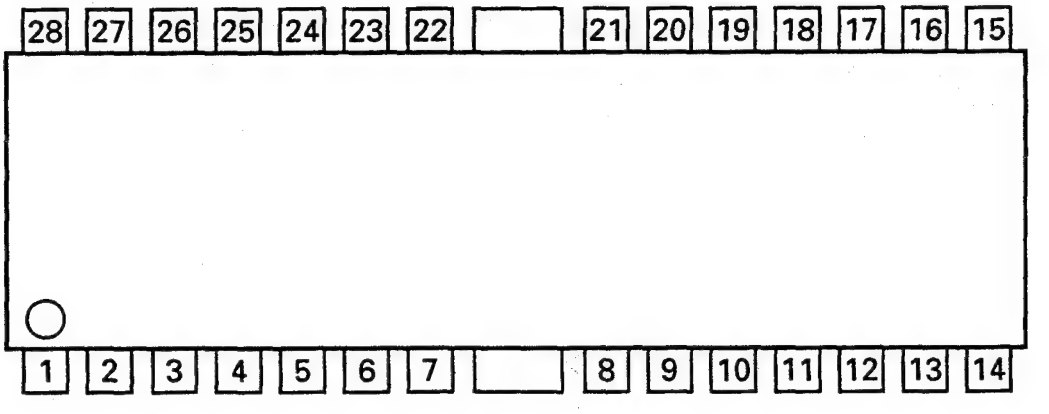
*UPD63702GF



● **Pin Functions (XLA6997FP)**

Pin No.	Pin Name	I/O	Function and Operation
1	OUT1-A	O	CH1 driver output
2	OUT1-B	O	CH1 driver output
3	IN1	I	CH1 input
4	IN1'	I	CH1 gain adjustment input
5	REG-B		PowTr base connection pin for regulator
6	REG OUT	O	Regulator output PowTr collector connection pin
7	REG GND		Regulator GND/Common circuit GND
8	BIAS	I	BIAS input
9	MUTE		Mute control pin
10	REG SW		Regulator switch pin
11	TEMP MON		Humidity monitor pin
12	IN2	I	CH2 input
13	OUT2-B	O	CH2 driver output
14	OUT2-A	O	CH2 driver output
15	GND		GND
16	OUT3-A	O	CH3 driver output
17	OUT3-B	O	CH3 driver output
18	IN3''		CH3 gain adjustment pin
19	IN3'		CH3 gain adjustment pin
20	IN3	I	CH3 input
21,22	VCC		VCC
23	IN4	I	CH4 input
24	IN4'		CH4 gain adjustment pin
25	IN4''		CH4 gain adjustment pin
26	OUT4-B	O	CH4 driver output
27	OUT4-A	O	CH4 driver output
28	GND		GND

XLA6997FP



8. LCD

- **CAW1337 (DEH-P725R/EW)**
- **CAW1364 (DEH-P725R-W/EW, DEX-P77R/EW)**

SEGMENT

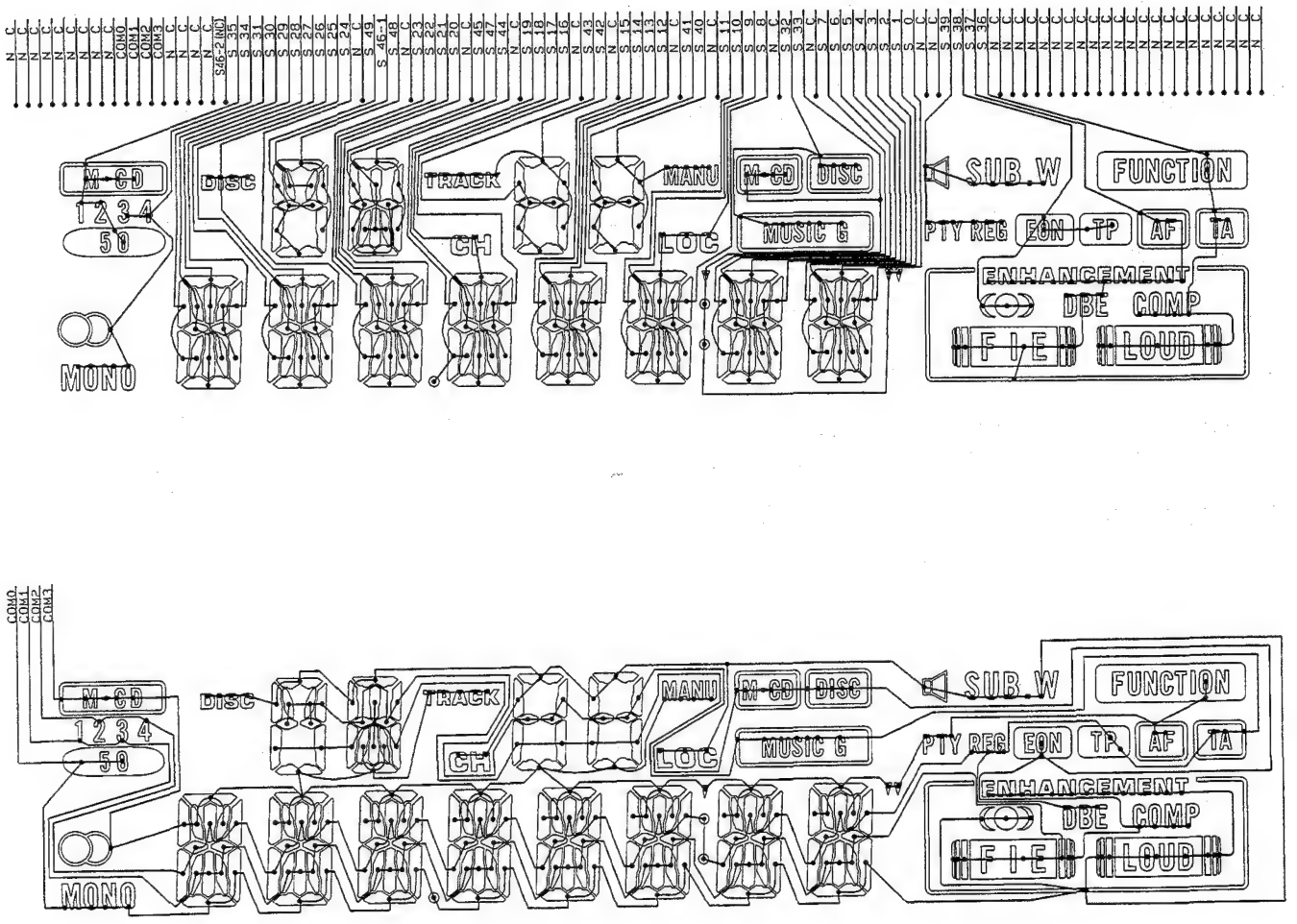
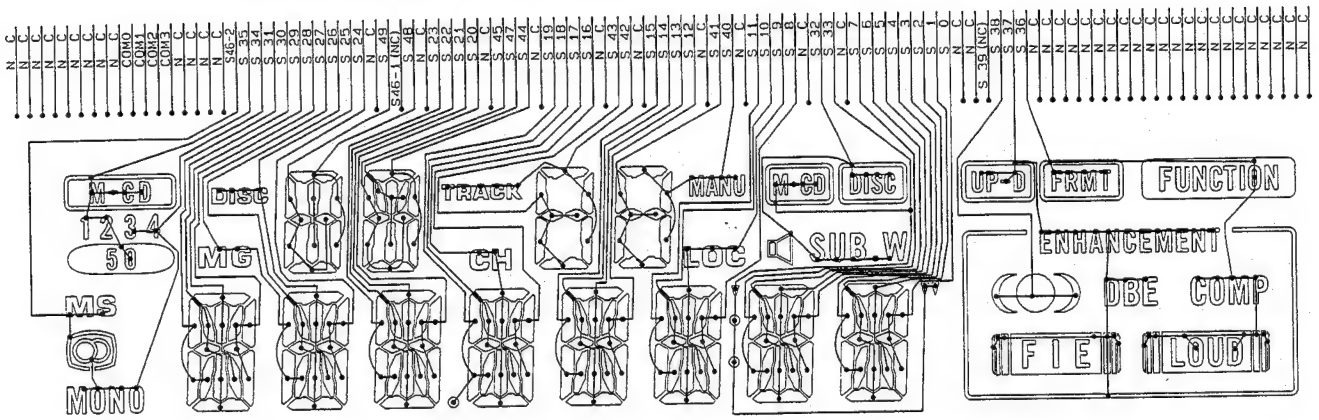


Fig. 5

- **CAW1338 (DEH-P725/UC, P723/ES, P625/UC)**
- **CAW1366 (DEH-P725-W/UC)**

SEGMENT



COMMON

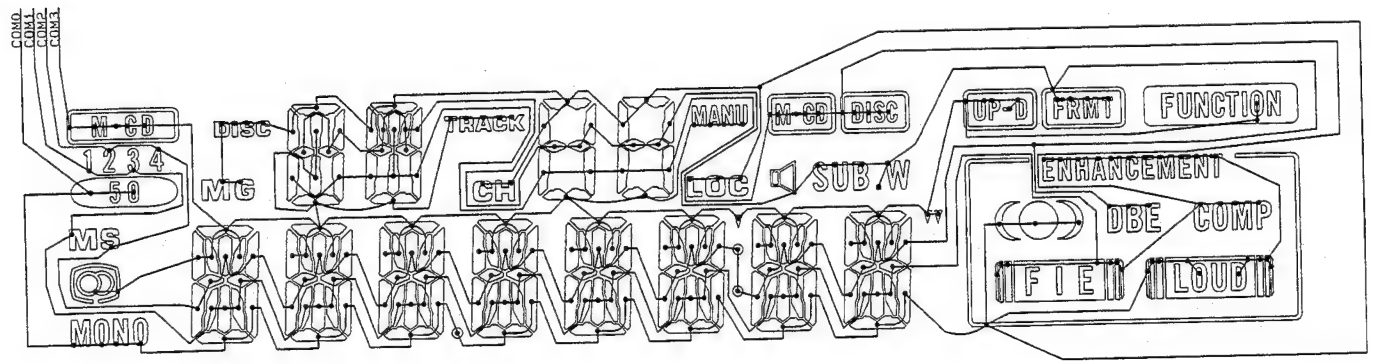
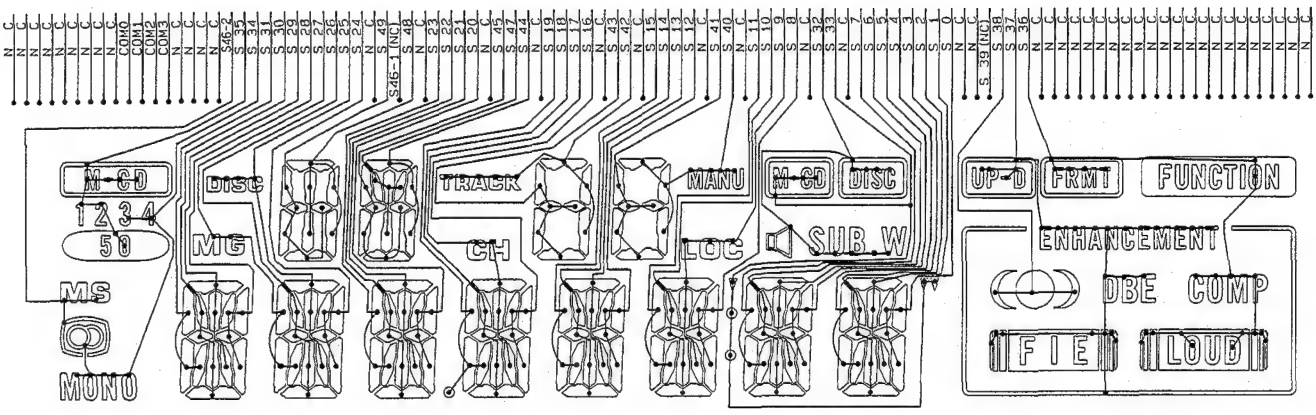


Fig. 6

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● CAW1365 (DEX-P88/UC)

SEGMENT



COMMON

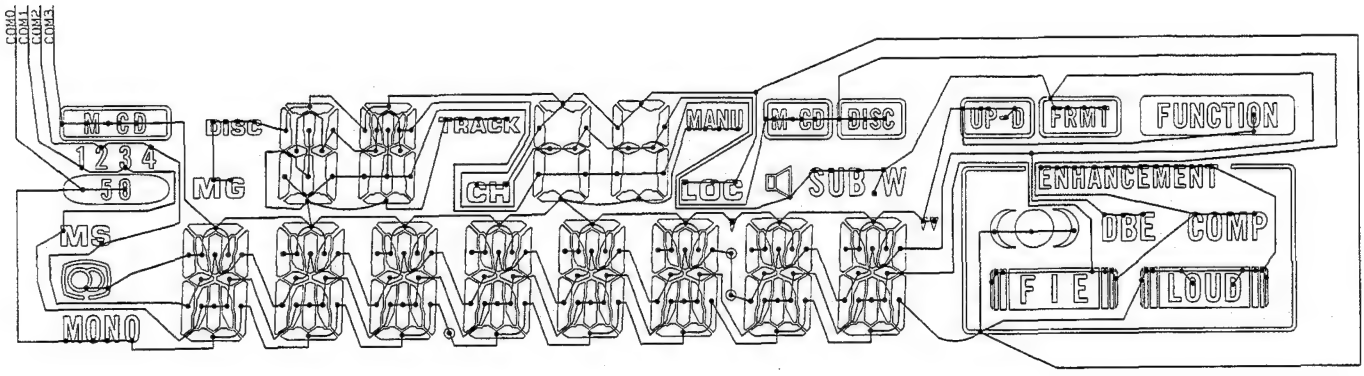


Fig. 7

9. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol & No.	Part Name=====	Part No.
Unit Number	: CWE1416	
Unit Name	: FM/AM Tuner Unit(EW Model)	
MISCELLANEOUS		
IC 1		PA4023A
IC 2		PA4024A
Q 1 31 165 202		2SC2412KLN
Q 2 154 203		DTC124EU
Q 3		3SK263
Q 201		2SK932
D 4		1SV251
D 5 7 8		KV1410
D 6 201 202		MA157
D 231		SVC253
L 2 4		CTC1108
L 3	Inductor	LCTB2R2K2125
L 5	Coil	CTC1107
L 6	Inductor	LCTBR15K1608
L 51	Ferri-Inductor	LAU150K
L 201	Ferri-Inductor	LAU4R7K
L 202	Ferri-Inductor	LAU330K
L 203	Inductor	CTF1287
L 208	Inductor	LAU121K
L 231	Inductor	LAU3R3J
T 31	Coil	CTE1116
T 51	Coil	CTC1136
TC 1	Trimmer	CCL1042
CF 51 52 53	Ceramic Filter	CTF1292
CF 232	Ceramic Filter	CTF1348
X 151	Ceramic Resonator 920.5kHz	CSS1365
X 231	Crystal Resonator 10.26MHz	CSS1111
VR 154	Semi-fixed 68kΩ(B)	CCP1211
AR 1	Capacitor with Discharge Gap	DSP-201M
RESISTORS		
R 1		RS1/16S0R0J
R 4		RS1/16S154J
R 5		RS1/16S391J
R 6 10 202		RS1/16S223J
R 7 243 247		RS1/16S123J
R 8 17		RS1/16S332J
R 9		RS1/16S473J
R 11		RS1/16S124J
R 13		RS1/16S563J
R 15		RS1/16S271J
R 16		RS1/16S104J
R 18		RS1/16S332J
R 31		RS1/16S470J
R 32 215		RS1/16S822J
R 33		RS1/16S822J
R 34 35		RS1/16S331J
R 51		RS1/16S271J
R 52		RS1/16S560J
R 55		RS1/16S102J
R 56		RS1/16S823J
R 61		RS1/16S392J
R 62 152		RS1/16S393J
R 101		RS1/16S272J
R 102		RS1/16S682J
R 103		RS1/16S333J
R 104		RS1/16S334J
R 105		RS1/16S683J
R 107		RS1/16S222J
R 151		RS1/16S222J
R 154 239		RS1/16S104J
R 155		RS1/16S273J
R 156		RS1/16S243J
R 157		RS1/16S203J
R 160		RS1/16S222J
R 161		RS1/16S563J
R 162		RS1/16S105J
R 163		RS1/16S222J
R 203		RS1/16S225J
R 204		RS1/16S103J
R 206		RS1/16S220J
R 207		RS1/16S101J
R 208 217		RS1/16S102J
R 209		RS1/16S471J
R 214		RS1/16S822J
R 231		RS1/16S272J
R 232		RS1/16S473J
R 237		RS1/16S103J
R 238		RS1/16S104J
R 240		RS1/16S332J
R 241		RS1/16S202J
R 244		RS1/16S103J
CAPACITORS		
C 1		CCSQCH060D50
C 2		CCSRCH020C50
C 4		CCSRCH820J50
C 6		CCSRCH820J50
C 8 18 25 31 52 59 62 105 107 213		CKSRYB103K25
C 9 34 56 152 160 241		CKSQYB104K16
C 10		CCSRCH0R5C50
C 11		CEA010M50LL
C 12 13 17 19 20		CKSRYB222K50
C 14		CCSRCH220J50
C 16		CCSRCH080D50
C 21		CEA100M16LL
C 22		CCSRTH090D50
C 23		CCSRTH120J50
C 24		CCSRCH471J50
C 32		CKSQYB472K50
C 33		CCSRCH050C50
C 36		CCSRRH201J50
C 51		CKSRYB223K25
C 54		CCSRCH470J50

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

=====Circuit Symbol & No. Part Name=====										Part No.
C	55									CKSQYB223K25
C	57									CKSRYB472K50
C	58	234								CEA330M10LL
C	61									CCSRCH270J50
C	63									CEAR15M50LL
C	101									CEA100M10NPLL
C	102									CKSRYB182K50
C	103									CKSRYB682K25
C	104									CEA2R2M50LL
C	106									CCSRCH151J50
C	151									CKSRYB472K50
C	153	157								CEA3R3M50LL
C	154									CKSQYB104K16
C	158									CKSYB474K16
C	159									CEA220M6R3LL
C	161	209								CKSQYB104K16
C	162									CEA3R3M50LL
C	163									CKSRYB102K50
C	170	202								CCSRCH100D50
C	201	250								CCSRCH471J50
C	203	235								CKSRYB332K50
C	204	205	236	244						CKSQYB473K16
C	206	233								CKSQYB104K16
C	207									CCSRCH560J50
C	211									CCSRCH101J50
C	212									CEA470M6R3LL
C	216									CCSRCH101J50
C	217									CEA1R5M50LL
C	219									CCSRCH471J50
C	220	230								CKSRYB103K25
C	231									CCSRCH330J50
C	232									CCSRCH150J50
C	237									CCSRCH180J50
C	239									CKSRYB472K50
C	240	242								CEAR47M50LL
C	243									CEAR33M50LL
C	245									CKSRYB123K25
C	246									CKSQYB473K16

Unit Number : CWE1417
Unit Name : FM/AM Tuner Unit(UC,ES Model)

MISCELLANEOUS

IC	1			PA4023A
IC	2			PA4024A
Q	1	31	202	2SC2412KLN
Q	2	203		DTC124EU
Q	3			3SK263
Q	201			2SK932
D	1	2		RD39JS
D	4			1SV251
D	5	7	8	KV1410
D	6	201	202	MA157
D	231			SVC253
L	2	4		CTC1108
L	3		Inductor	LCTB2R2K2125
L	5		Coil	CTC1107
L	51		Ferri-Inductor	LAU150K
L	201		Ferri-Inductor	LAU4R7K
L	202		Ferri-Inductor	LAU330K
L	203		Inductor	CTF1287
L	208		Inductor	LAU121K
L	231		Inductor	LAU3R3J

=====Circuit Symbol & No. Part Name=====										Part No.
T	31									Coil CTE1116
T	51									Coil CTC1136
CF	51	52	53							Ceramic Filter CTF1290
CF	232									Ceramic Filter CTF1348
X	151									Ceramic Resonator 920.5kHz CSS1365
X	231									Crystal Resonator 10.26MHz CSS1111
VR	154									Semi-fixed 68kΩ(B) CCP1211

RESISTORS

R	1	2								RS1/16S225J
R	4									RS1/16S154J
R	5									RS1/16S391J
R	6	10	202							RS1/16S223J
R	7	247								RS1/16S123J
R	8	17								RS1/16S332J
R	9									RS1/16S473J
R	11									RS1/16S124J
R	13									RS1/16S563J
R	15									RS1/16S271J
R	16									RS1/16S104J
R	18									RS1/16S332J
R	31									RS1/16S470J
R	32	215								RS1/16S822J
R	33									RS1/16S822J
R	34	35								RS1/16S331J
R	51									RS1/16S271J
R	52									RS1/16S560J
R	55									RS1/16S102J
R	56									RS1/16S823J
R	61									RS1/16S392J
R	62									RS1/16S273J
R	101									RS1/16S272J
R	102									RS1/16S682J
R	103									RS1/16S333J
R	104									RS1/16S334J
R	105									RS1/16S683J
R	107									RS1/16S222J
R	151									RS1/16S222J
R	152									RS1/16S393J
R	239									RS1/16S104J
R	155									RS1/16S273J
R	156									RS1/16S243J
R	157									RS1/16S203J
R	160									RS1/16S222J
R	161									RS1/16S563J
R	162									RS1/16S105J
R	163									RS1/16S223J
R	203									RS1/16S225J
R	204									RS1/16S103J
R	206									RS1/16S220J
R	207									RS1/16S101J
R	208	217								RS1/16S102J
R	209									RS1/16S471J
R	214									RS1/16S822J
R	231									RS1/16S272J
R	232									RS1/16S473J
R	237									RS1/16S103J
R	238									RS1/16S104J
R	239									RS1/16S104J
R	240									RS1/16S332J
R	241									RS1/16S202J
R	243									RS1/16S183J
R	244									RS1/16S472J

=====Circuit Symbol & No.	Part Name=====	Part No.
CAPACITORS		
C 1		CCSQCH060D50
C 2		CCSRCH020C50
C 4		CCSRCH820J50
C 6		CCSRCH820J50
C 8 18 25 31 52 59 62 105 107 213		CKSRYB103K25
C 9 34 56 152 160 241		CKSQYB104K16
C 10		CCSRCH0R5C50
C 11		CEA010M50LL
C 12 13 17 19 20		CKSRYB222K50
C 14		CCSRCH220J50
C 15		CCSRCH060D50
C 16		CCSRCH080D50
C 21		CEA100M16LL
C 22		CCSRTH090D50
C 23		CCSRTH120J50
C 24		CCSRCH471J50
C 26		CCSRCH101J50
C 32		CKSQYB472K50
C 33		CCSRCH050C50
C 36		CCSRRH201J50
C 51		CKSRYB223K25
C 54		CCSRCH470J50
C 55		CKSQYB223K25
C 57		CKSRYB472K50
C 58 234		CEA330M10LL
C 60		CKSRYB102K50
C 61		CKSRYB102K50
C 63		CEAR22M50LL
C 101		CEA100M10NPLL
C 102		CKSRYB182K50
C 103		CKSRYB682K25
C 104		CEA2R2M50LL
C 106		CCSRCH151J50
C 151		CKSRYB472K50
C 153 157		CEA3R3M50LL
C 154		CKSQYB104K16
C 158		CKSYB474K16
C 159		CEA220M6R3LL
C 161 209		CKSQYB104K16
C 162		CEA3R3M50LL
C 163		CKSRYB102K50
C 170 202		CCSRCH100D50
C 201 250		CCSRCH471J50
C 203 235		CKSRYB332K50
C 204 205 236 244		CKSQYB473K16
C 206 233		CKSQYB104K16
C 207		CCSRCH560J50
C 211		CCSRCH101J50
C 212		CEA470M6R3LL
C 216		CCSRCH101J50
C 217		CEA1R5M50LL
C 219		CCSRCH471J50
C 220 230		CKSRYB103K25
C 231		CCSRCH330J50
C 232		CCSRCH150J50
C 237		CCSRCH180J50
C 239		CKSRYB472K50
C 240 242		CEAR47M50LL
C 243		CEAR33M50LL
C 245		CKSRYB183K25
C 246		CKSQYB473K16

=====Circuit Symbol & No.	Part Name=====	Part No.
Unit Number : CWX1922(DEX-P77R,P88)		
Unit Name : High Output Unit		
MISCELLANEOUS		
IC 4151 4251 4351		NJM4558MD
Q 4151		IMH3A
Q 4251 4351		IMH3A
D 4151 4251 4351		MA151WA
	DC-DC Converter Unit	CWM4538
RESISTORS		
R 4051		RD1/2PS271JL
R 4151 4351 4352		RS1/10S473J
R 4152		RS1/16S473J
R 4153 4154 4156 4253 4255 4353 4354 4355 4356		RS1/16S103J
R 4155 4254 4256		RS1/10S103J
R 4157 4257 4258 4357 4358		RS1/10S821J
R 4158		RS1/16S821J
R 4159 4160 4259 4260 4359 4360		RS1/10S223J
R 4251 4252		RS1/16S473J
CAPACITORS		
C 4053		CSZSC100M16
C 4151 4152 4351 4352		CEA2R2M50LL
C 4153 4254		CEA100M16LL
C 4154 4253 4353 4354		CEA100M16LS2
C 4155 4156		CKSYB105K16
C 4157 4158		CKSQYB823K25
C 4251 4252		CEA2R2M50LS2
C 4255 4256 4355 4356		CCSQCH221J50
C 4257 4357 4358		CCSQCH820J50
C 4258		CCSQCH820J50
Unit Number : CWM4538(DEX-P77R,P88)		
Unit Name : DC-DC Converter Unit		
MISCELLANEOUS		
IC 4001		TL1451ANS
Q 4001		2SA1797
Q 4002		2SC2812
Q 4003		2SA1179
Q 4004		2SA1576
Q 4005		DTC124EU
D 4001		SC802-06
L 4001 4002 4003	Choke Coil 220H	CTH1164
RESISTORS		
R 4001		RS1/10S122J
R 4002		RS1/10S473J
R 4003		RS1/4S681J
R 4004		RS1/10S101J
R 4005		RN1/10SE333D
R 4006		RN1/10SE123D
R 4007		RS1/10S104J
R 4008		RN1/10SE622D
R 4009 4010		RS1/10S223J
R 4011		RS1/10S101J
R 4012 4013		RN1/10SE103D
R 4016		RS1/10S754J
R 4017		RN1/10SE912D
R 4018		RN1/10SE153D
R 4019		RN1/10SE303D
CAPACITORS		
C 4001 4003 4006 4008	33µF/25V	CCH1249
C 4002 4005 4009 4010 4014		CKSQYB102K50
C 4004		CCSQCH101J50
C 4011		CKSQYF105Z16
C 4012		CCSQCH221J50
C 4013		CKSQYB104K25

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

=====Circuit Symbol & No. Part Name=====		Part No.
Unit Number :		
Unit Name : Key Board P.C.Board(DEH-P725R/EW)		
MISCELLANEOUS		
IC 1901		PD6166A
IC 1902		RS-30
Q 1901		2SC2712
D 1901 1902		MA153
D 1903	Chip LED	CL170FGCD
D 1904 1905 1906 1907	Chip LED	CL170FGCD
D 1908 1909 1910 1911	Chip LED	CL170FGCD
D 1912 1913 1914 1915	Chip LED	CL170FGCD
D 1916 1917 1918 1919	Chip LED	CL170FGCD
D 1920 1921 1922 1923	Chip LED	CL170FGCD
D 1925 1926 1927 1928	Chip LED	CL170FGCD
D 1928 1929 1930 1931	Chip LED	CL170FGCD
D 1932 1933 1934 1935	Chip LED	CL170FGCD
L 1901	Inductor	LCTA4R7K4532
X 1901		CSS1084
S 1901	Switch	CSG1043
S 1902 1903 1904 1908	Switch	CSG1043
S 1905 1906 1907 1909	Switch	CSG1041
S 1910 1911 1913 1914	Switch	CSG1041
S 1912 1916 1920 1921	Switch	CSG1043
S 1915 1917 1918 1919	Switch	CSG1041
S 1922 1923 1924	Switch	CSG1043
	EL	CEL1424
LCD1901	LCD	CAW1337
RESISTORS		
R 1901 1902		RS1/2S222J
R 1903		RS1/10S121J
R 1904		RS1/8S151J
R 1905		RS1/10S103J
R 1906		RS1/10S102J
R 1907 1908		RS1/10S472J
R 1909		RS1/10S2R2J
R 1910		RS1/10S272J
R 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920		RS1/10S470J
R 1921 1922 1923 1924 1925 1926 1928 1929 1930		RS1/4S391J
R 1927 1931		RS1/2S471J
CAPACITORS		
C 1901 1902		CSZS100M6R3
C 1903 1904 1905 1906		CKSQYB103K25
Unit Number : CWX1916(DEH-P725R/EW,P725R-W/EW)		
Unit Name : Tuner Amp Unit		
MISCELLANEOUS		
IC 401		TA2050S
IC 402		HA12187FP
IC 451		PM0008AF
IC 501		PM2004A
IC 551		PAL003A
IC 601		PD4636A
IC 701		PD6164A
IC 703		PMW001A
IC 704		SC14SU69F
IC 761 762 763		NJM4558MD
IC 764		TC4066BF
IC 765		NJM4558MD
IC 921		TPD1018F
IC 961		S-80734ANDYI
IC 971		PA2024A

=====Circuit Symbol & No. Part Name=====		Part No.
Q 402		2SA1037K
Q 403		DTC124EK
Q 433 434		2SD1757K
Q 501 653 665 667		2SC2412K
Q 502		DTC124EK
Q 551		IMH1A
Q 602 761		DTC124EK
Q 603		DTA114EK
Q 651 662 845 981		IMD2A
Q 661 670		2SC3295
Q 664 911		2SD1760F5
Q 666		2SB1238
Q 668		2SD1864
Q 669 941		2SA1037K
Q 701		DTC143TK
Q 831 833		IMH3A
Q 951		IMX1
Q 983		2SD2396
Q 991		2SC2412K
D 431		DAN212K
D 501 661 941 971		DAN202K
D 651 652 901 902 911 921 922		ERA15-02VH
D 654	LED	BR4361F
D 662 666 667 668		DA204K
D 663 665		MA3062M
D 664		MA3039L
D 701		MA3047M
D 702		DAN212K
D 836 837		DAP202K
D 912		HZS6LB1
D 951		MA3082L
D 952		MA3075H
D 961		DAN212K
D 982		HZS9LB1
L 501 503 601 602	Ferri-Inductor	LAU2R2K
L 502	Ferri-Inductor	CTF-157
L 661	Transformer	CTT1038
L 651 662 941	Ferri-Inductor	LAU2R2K
L 701	Ferri-Inductor	LAU101K
L 703	Inductor	LCTB2R2K3216
TC 601	Trimmer	CCL1017
TH 601	Thermistor	CCX1031
X 501	Crystal 7.200MHz	CSS1379
X 601	Oscillator 6.291456MHz	CSS1303
X 701	Crystal Resonator 4.332MHz	CSS1056
S 961	Switch(Reset)	CSG1046
IL 661	Lamp 40mA 14V	CEL1263
VR 701	Semi-fixed 2.2kΩ(B)	CCP1123
	FM/AM TunerUnit	CWE1416
EF 901	EMI Filter	CCG1006
BZ 601	Buzzer	CPV1011
RESISTORS		
R 401 402 455 456		RS1/16S101J
R 403		RS1/16S620J
R 404 504 704		RS1/16S222J
R 405 406 414 415 419 420 457 493 494 525		RS1/16S102J
R 407 408		RS1/16S473J
R 409		RS1/16S223J
R 410 411 461 521 522 523 615 798 799		RS1/16S472J
R 412 417		RS1/16S181J
R 413 416 619 655 677 755 756 831 832		RS1/16S223J
R 421 422		RS1/16S332J
R 423 511		RS1/16S103J
R 433 434		RS1/16S223J
R 435 436		RS1/16S224J
R 437		RS1/16S824J
R 439 440 451 452		RS1/16S272J

=====Circuit Symbol & No. Part Name=====										Part No.
R	441	442								RS1/16S0R0J
R	443	444								RS1/16S222J
R	445	446	518							RS1/16S0R0J
R	453	454								RS1/16S151J
R	458	551	553	661	672	686	883	912		RS1/16S103J
R	462									RA3C472J
R	495	496	750							RS1/16S333J
R	501	509	733	885	886					RS1/16S0R0J
R	502	507	774	942	943	973	974	984		RS1/16S472J
R	503	505	601	602	604	663	678	714	715	RS1/16S222J
R	506									RS1/16S681J
R	508									RS1/16S682J
R	510									RS1/16S561J
R	512									RS1/16S222J
R	513	772								RS1/16S152J
R	514									RS1/16S392J
R	515									RS1/16S392J
R	516									RS1/16S102J
R	517	638	731	944						RS1/16S102J
R	519									RS1/16S472J
R	520									RS1/16S562J
R	524	609	616	625	632	649	721			RS1/16S473J
R	526									RS1/16S562J
R	527	629	630	633	637	639	652	746	747	748 RS1/16S102J
R	528									RS1/16S473J
R	530									RS1/16S682J
R	531									RS1/16S102J
R	534									RS1/16S472J
R	535									RS1/16S272J
R	536									RS1/16S103J
R	537									RS1/16S332J
R	538									RS1/16S0R0J
R	552									RS1/16S221J
R	554									RS1/16S101J
R	605	606	607	608						RS1/16S681J
R	610	611	612	613	614	618	620	621	622	623 RS1/16S473J
R	626									RN1/10SE223D
R	627									RS1/16S393J
R	628	631	635	653	690	706	732	882		RS1/16S473J
R	636	708	713	716	725					RS1/16S681J
R	651									RS1/16S103J
R	656									RS1/16S272J
R	662	685								RS1/16S224J
R	667									RS1P100JL
R	668									RD1/4PU471J
R	669	682								RS1/10S222J
R	670									RS1P681JL
R	673									RS1/16S204J
R	674	971								RS1/16S104J
R	675									RS1/10S241J
R	676									RS1/10S512J
R	679									RS1/8S222J
R	680	681								RS1/8S472J
R	683	684								RS1/10S472J
R	687									RS1/16S472J
R	707									RS1/16S105J
R	710	712								RA3C681J
R	711									RS1/16S681J
R	749									RS1/16S0R0J
R	751									RD1/4PU151J
R	752	753	754	961	972					RS1/16S102J
R	761	769								RS1/16S3322F
R	762	763	764	767						RS1/16S3322F
R	765	766								RS1/16S6812F
R	768									RS1/16S1652F

=====Circuit Symbol & No. Part Name=====										Part No.
R	770									RS1/16S331J
R	771									RS1/16S561J
R	773									RS1/16S471J
R	775	781								RS1/16S1213F
R	776	780								RS1/16S8252F
R	777	782								RS1/16S1003F
R	778	783								RS1/16S2002F
R	779	784								RS1/16S4322F
R	785									RS1/16S362J
R	786									RS1/16S2742F
R	787									RS1/16S2002F
R	788	789								RS1/16S2212F
R	790									RS1/16S333J
R	791									RS1/16S333J
R	792	793								RS1/16S473J
R	794	795								RS1/16S473J
R	833	834	839	840						RS1/16S821J
R	835	836								RS1/16S473J
R	881									RS1/10S182J
R	911									RS1/10S101J
R	921	991	993							RS1/10S103J
R	941									RS1/10S183J
R	951	953								RS1/10S473J
R	952	954								RS1/10S223J
R	962									RS1/16S124J
R	981									RD1/4PU221J
R	982									RS1/10S221J
R	983									RS1/16S122J
R	992									RS1/10S472J

CAPACITORS

C	401	402	462	489	492	559	607	710	713		CKSQYB104K16
C	403	415	416	711							CKSQYB102K50
C	404	407	485	486	560	662	664	709			CEA100M16LL
C	405	406	408	409	413	414	437	438	439	440	CEA010M50LL
C	441	442	523	528	663						CKSQYB223K25
C	443										CKSQYB103K25
C	451	452									CKSQYB822K50
C	453	454	556	561	714						CEA010M50LL
C	457	458									CKSQYB152K50
C	459	460	467	468							CEA100M10NPLL
C	461	913	972	974							CEA470M10LL
C	463										CEA100M16LL
C	464	961									CEA2R2M50LL
C	465	466									CKSQYB183K25
C	469	470									CKSYB334K16
C	471	472	510	512	514	520	525	526	652	661	CKSQYB103K25
C	473	474									CKSYB105K16
C	475	476									CKSQYB823K25
C	481	482									CEA4R7M35LL
C	487	488									CKSQYB333K25
C	490										CKSQYB562K50
C	491	921									CKSQYB473K16
C	493	494									CEA100M16LL
C	501	502									CCSQCH150J50
C	503										CCSQCH101J50
C	504	509	532								CEA220M6R3LL
C	506	530									CKSQYB103K25
C	507										CEA220M16LL
C	508										CKSQYB103K25
C	511	513			4.7µF/16V						CCH1165
C	515	555									CEA330M10LL
C	516	517	519								CKSQYB103K25
C	518										CKSQYB103K25
C	521										CKLSR473K16
C	522										CKSQYB223K25

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

=====Circuit Symbol & No. Part Name=====		Part No.
C 524		CKSQYB103K25
C 527		CKSQYB223K25
C 529		CEAR47M50LL
C 531 725		CCSQCH101J50
C 534		CKSQYB103K25
C 535 536		CKSQYB103K25
C 538		CKSQYB103K25
C 540		CKSQYB152K50
C 541		CKSQYB103K25
C 542		CCSQCH101J50
C 544		CKSQYB332K50
C 545		CKSQYB103K25
C 546 547		CKSQYB472K50
C 548 549 726		CCSQCH101J50
C 551 552 553 554		CKSYB224K16
C 557 911	1000µF/16V	CCH1149
C 558	3300µF/16V	CCH1150
C 601 605		CCSQCH330J50
C 602		CCSQCH120J50
C 603		CEA4R7M35LL
C 604 606 665 666		CCSQCH101J50
C 608		CKSQYB103K25
C 609 915		CKSQYB103K25
C 613 615		CCSQCH101J50
C 614		CCSQCH101J50
C 701 707 912		CKSQYB103K25
C 704 705		CCSQCH270J50
C 712		CKSQYB472K50
C 715		CKSYB104K16
C 716		CKSQYB222K50
C 717 971 983		CKSQYB104K16
C 718		CEA100M16LL
C 721		CEA4R7M16NPLL
C 724		CKSQYB103K25
C 727 728		CCSQCH101J50
C 761 762		CKSQYB104K16
C 763		CKSQYB472K50
C 764		CKSYB474K16
C 765 766		CCSQCH330J50
C 831 832		CCSCH221J50
C 833 834		CKSQYB221K50
C 858		CEA220M16LL
C 914	0.22F/5.5V	CCL1037
C 973		CEA101M10LL
C 975	330µF/10V	CCH1181
C 982		CKSYB105K16
C 984		CEA101M10LS
C 991		CEA4R7M16LS2

Unit Number : CWX1947(DEX-P77R/EW)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 401	TA2050S
IC 402	CA0008AM
IC 451	PM0008AF
IC 501	PM2004A
IC 601	PD4636A
IC 701	PD6164A
IC 703	PMW001A
IC 704	SC14SU69F
IC 921	TPD1018F
IC 961	S-80734ANDYI
IC 971	PA2024A
Q 402	2SA1037K
Q 403	DTC124EK
Q 433 434	2SD1757K
Q 501 653 665 667	2SC2412K

=====Circuit Symbol & No. Part Name=====		Part No.
Q 502		DTC124EK
Q 602		DTC124EK
Q 603		DTA114EK
Q 651 662 845 981		IMD2A
Q 661 670		2SC3295
Q 664 911		2SD1760F5
Q 666		2SB1238
Q 668		2SD1864
Q 669 941		2SA1037K
Q 701		DTC143TK
Q 951		IMX1
Q 983		2SD2396
Q 991		2SC2412K
D 431		DAN212K
D 501 661 941 971		DAN202K
D 651 652 901 902 911 921 922		ERA15-02VH
D 654	LED	BR4361F
D 662 666 667 668		DA204K
D 663 665		MA3062M
D 664		MA3039L
D 701		MA3047M
D 702		DAN212K
D 912		HZS6LB1
D 951		MA3082L
D 952		MA3075H
D 961		DAN212K
D 982		HZS9LB1
L 501 503 601 602	Ferri-Inductor	LAU2R2K
L 502	Ferri-Inductor	CTF-157
L 651 662 941	Ferri-Inductor	LAU2R2K
L 661	Transformer	CTT1038
L 701	Ferri-Inductor	LAU101K
L 703	Inductor	LCTB2R2K3216
TC 601	Trimmer	CCL1017
TH 601	Thermistor	CCX1031
X 501	Crystal Resonator 7.200MHz	CSS1379
X 601	Oscillator 6.291456MHz	CSS1303
X 701	Crystal Resonator 4.332MHz	CSS1056
S 961	Switch(Reset)	CSG1046
IL 661	Lamp 40mA 14V	CEL1263
VR 701	Semi-fixed 2.2kΩ(B)	CCP1123
	FM/AM Tuner Unit	CWE1416
	High Output Unit	CWX1922
EF 901	EMI Filter	CCG1006
BZ 601	Buzzer	CPV1011

RESISTORS

R 401 402 455 456	RS1/16S101J
R 403	RS1/16S620J
R 404 504 704	RS1/16S222J
R 405 406 414 415 419 420 457 493 494 525	RS1/16S102J
R 407 408	RS1/16S473J
R 409 625	RS1/16S223J
R 410 411 461 521 522 523 615	RS1/16S472J
R 412 417	RS1/16S181J
R 413 416 619 655 677 755 756	RS1/16S223J
R 421 422	RS1/16S332J
R 423 511	RS1/16S103J
R 433 434	RS1/16S223J
R 435 436	RS1/16S224J
R 437	RS1/16S824J
R 439 440 451 452	RS1/16S272J
R 441 442	RS1/16S0R0J
R 443 444	RS1/16S222J
R 445 446 518 796 797	RS1/16S0R0J
R 453 454	RS1/16S151J
R 458 661 672 686 912	RS1/16S103J

Circuit Symbol & No.	Part Name	Part No.
R 462		RA3C472J
R 495 496 750		RS1/16S333J
R 501 509 733		RS1/16S0R0J
R 502 507 942 943 973 974 984		RS1/16S472J
R 503 505 601 602 604 663 678 714 715		RS1/16S222J
R 506		RS1/16S681J
R 508		RS1/16S682J
R 510		RS1/16S561J
R 512		RS1/16S222J
R 513		RS1/16S152J
R 514		RS1/16S392J
R 515		RS1/16S392J
R 516		RS1/16S102J
R 517 638 731 944		RS1/16S102J
R 519		RS1/16S472J
R 520		RS1/16S562J
R 524 609 616 624 632 649 721		RS1/16S473J
R 526		RS1/16S562J
R 527 629 630 633 637 639 652 746 747 748		RS1/16S102J
R 528		RS1/16S473J
R 530		RS1/16S682J
R 531		RS1/16S102J
R 534		RS1/16S472J
R 535		RS1/16S272J
R 536		RS1/16S103J
R 537		RS1/16S332J
R 538		RS1/10S0R0J
R 605 606 607 608		RS1/16S681J
R 610 611 612 613 614 618 620 621 622 623		RS1/16S473J
R 626		RN1/10SE223D
R 627		RS1/16S393J
R 628 631 635 653 690 706 732 882		RS1/16S473J
R 636 708 713 716 725		RS1/16S681J
R 651		RS1/16S103J
R 656		RS1/16S272J
R 662 685		RS1/16S224J
R 667		RS1P100JL
R 668		RD1/4PU471J
R 669 682		RS1/10S222J
R 670		RS1P681JL
R 673		RS1/16S204J
R 674 971		RS1/16S104J
R 675		RS1/10S241J
R 676		RS1/10S512J
R 679		RS1/8S222J
R 680 681		RS1/8S472J
R 683 684		RS1/10S472J
R 687		RS1/16S472J
R 707		RS1/16S105J
R 710 712		RA3C681J
R 711		RS1/16S681J
R 749		RS1/16S0R0J
R 751		RD1/4PU151J
R 752 753 754 961 972		RS1/16S102J
R 881		RS1/10S182J
R 911		RS1/10S101J
R 921 991 993		RS1/10S103J
R 941		RS1/10S183J
R 951 953		RS1/10S473J
R 952 954		RS1/10S223J
R 962		RS1/16S124J
R 981		RD1/4PU221J
R 982		RS1/10S221J
R 983		RS1/16S122J
R 992		RS1/10S472J

Circuit Symbol & No.	Part Name	Part No.
CAPACITORS		
C 401 402 462 489 492 559 607 710 713		CKSQYB104K16
C 403 415 416 711		CKSQYB102K50
C 404 407 662 664 709 718		CEA100M16LL
C 405 406 408 409 413 414 437 438 439 440		CEA010M50LL
C 441 442 523 528 663		CKSQYB223K25
C 443		CKSQYB103K25
C 451 452		CKSQYB822K50
C 453 454		CEA010M50LL
C 457 458		CKSQYB152K50
C 459 460 467 468		CEA100M10NPLL
C 461 913 972 974		CEA470M10LL
C 463		CEA100M16LL
C 464 961		CEA2R2M50LL
C 465 466		CKSQYB183K25
C 469 470		CKSYB334K16
C 471 472 510 512 514 520 525 526 652 661		CKSQYB103K25
C 473 474		CKSYB105K16
C 475 476		CKSQYB823K25
C 487 488		CKSQYB333K25
C 490		CKSQYB562K50
C 491 921		CKSQYB473K16
C 493 494		CEA100M16LL
C 501 502		CCSQCH150J50
C 503		CCSQCH101J50
C 504 509 532		CEA220M6R3LL
C 506 530		CKSQYB103K25
C 507		CEA220M16LL
C 508		CKSQYB103K25
C 511 513	4.7µF/16V	CCH1165
C 515		CEA330M10LL
C 516 517 519		CKSQYB103K25
C 518		CKSQYB103K25
C 521		CKLSR473K16
C 522		CKSQYB223K25
C 524		CKSQYB103K25
C 527		CKSQYB223K25
C 529		CEAR47M50LL
C 531 725		CCSQCH101J50
C 534		CKSQYB103K25
C 535 536		CKSQYB103K25
C 538		CKSQYB103K25
C 540		CKSQYB152K50
C 541		CKSQYB103K25
C 542		CCSQCH101J50
C 544		CKSQYB332K50
C 545		CKSQYB103K25
C 546 547		CKSQYB472K50
C 548 549 726		CCSQCH101J50
C 557 911	1000µF/16V	CCH1149
C 558	3300µF/16V	CCH1150
C 601 605		CCSQCH330J50
C 602		CCSQCH120J50
C 603		CEA4R7M35LL
C 604 606 665 666		CCSQCH101J50
C 608		CKSQYB103K25
C 609 915		CKSQYB103K25
C 613 615		CCSQCH101J50
C 614		CCSQCH101J50
C 701 707 912		CKSQYB103K25
C 704 705		CCSQCH270J50
C 712		CKSQYB472K50
C 714		CKSYB105K16
C 715		CKSYB104K16
C 716		CKSQYB222K50
C 717 971 983		CKSQYB104K16

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

=====Circuit Symbol & No. Part Name=====	Part No.
C 721	CEA4R7M16NPLL
C 724	CKSQYB103K25
C 727 728	CCSQCH101J50
C 858	CEA220M16LL
C 914 0.22F/5.5V	CCL1037
C 973	CEA101M10LL
C 975	CCH1181
C 982	CKSYB105K16
C 984	CEA101M10LS
C 991	CEA4R7M50LL

Unit Number : CWX1919(DEH-P625/UC)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC 401	TA2050S
IC 402	CA0008AM
IC 451	PM0008AF
IC 501	PM2004A
IC 551	PAL003A
IC 601	PD4636A
IC 921	TPD1018F
IC 961	S-80734ANDYI
IC 971	PA2024A
Q 402	2SA1037K
Q 403	DTC124EK
Q 501 665 667	2SC2412K
Q 502	DTC124EK
Q 551	IMH1A
Q 602	DTC124EK
Q 603	DTA114EK
Q 661 670	2SC3295
Q 662 845 981	IMD2A
Q 664 911	2SD1760F5
Q 666	2SB1238
Q 668	2SD1864
Q 669	2SA1037K
Q 831 833	IMH3A
Q 951	IMX1
Q 983	2SD2396
Q 991	2SC2412K
D 501 661 971	DAN202K
D 662 666 667 668	DA204K
D 663 665	MA3062M
D 664	MA3039L
D 836 837	DAP202K
D 901 902 911 921 922	ERA15-02VH
D 912	HZS6LB1
D 951	MA3082L
D 952	MA3075H
D 961	DAN212K
D 982	HZS9LB1
L 501 503 601 602 Ferri-Inductor	LAU2R2K
L 502 Ferri-Inductor	CTF-157
L 661 Transformer	CTT1038
L 662 Ferri-Inductor	LAU2R2K
TC 601 Trimmer	CCL1017
TH 601 Thermistor	CCX1031
X 501 Crystal 7.200MHz	CSS1379
X 601 Oscillator 6.291456MHz	CSS1303
S 961 Switch(Reset)	CSG1046
IL 661 Lamp 40mA 14V	CEL1263
VR 701 Semi-fixed 2.2kΩ(B)	CCP1123
FM/AM Tuner Unit	CWE1417
EF 901 EMI Filter	CCG1006
BZ 601 Buzzer	CPV1011

=====Circuit Symbol & No. Part Name=====	Part No.
RESISTORS	
R 401 402 455 456	RS1/16S101J
R 403	RS1/16S620J
R 404 504	RS1/16S222J
R 405 406 414 415 419 420 493 494 525	RS1/16S102J
R 407 408	RS1/16S473J
R 409	RS1/16S223J
R 410 411 461 521 522 523	RS1/16S472J
R 412 417	RS1/16S181J
R 413 416 619 677 831 832	RS1/16S223J
R 421 422	RS1/16S332J
R 423 511	RS1/16S103J
R 439 440	RS1/16S162J
R 451 452	RS1/16S272J
R 441 442	RS1/16S0R0J
R 445 446 518	RS1/16S0R0J
R 447 448	RS1/16S0R0J
R 453 454	RS1/16S151J
R 462	RA3C472J
R 495 496	RS1/16S333J
R 501 509 885 886	RS1/16S0R0J
R 502 507 973 974 984	RS1/16S472J
R 503 505 601 602 604 663 678	RS1/16S222J
R 506	RS1/16S681J
R 508	RS1/16S682J
R 510	RS1/16S561J
R 512	RS1/16S222J
R 513	RS1/16S152J
R 514	RS1/16S392J
R 515	RS1/16S392J
R 516	RS1/16S102J
R 517 638	RS1/16S102J
R 520	RS1/16S473J
R 524 609 625 632 649	RS1/16S473J
R 526	RS1/16S562J
R 527 629 630 633 637 639	RS1/16S102J
R 528	RS1/16S473J
R 530	RS1/16S682J
R 531	RS1/16S102J
R 534	RS1/16S472J
R 535	RS1/16S272J
R 536	RS1/16S103J
R 537	RS1/16S332J
R 538	RS1/16S0R0J
R 551 553 661 672 686 883 912	RS1/16S103J
R 552	RS1/16S221J
R 554	RS1/16S101J
R 605 606 607 608	RS1/16S681J
R 610 611 614 618 620 621 622 623	RS1/16S473J
R 624	RS1/16S223J
R 626	RN1/10SE223D
R 627	RS1/16S393J
R 628 631 635 653 690 882	RS1/16S473J
R 636	RS1/16S681J
R 662 685	RS1/16S224J
R 667	RS1P100JL
R 668	RD1/4PU471J
R 669 682	RS1/10S222J
R 670	RS1P681JL
R 673	RS1/16S204J
R 674 971	RS1/16S104J
R 675	RS1/10S241J
R 676	RS1/10S512J
R 679	RS1/8S222J
R 680 681	RS1/8S472J
R 683 684	RS1/10S472J

=====Circuit Symbol & No. Part Name=====										Part No.
R	687									RS1/16S472J
R	796	797								RS1/16S0R0J
R	833	834	839	840						RS1/16S821J
R	835	836								RS1/16S473J
R	881									RS1/10S182J
R	911									RS1/10S101J
R	921	991	993							RS1/10S103J
R	951	953								RS1/10S473J
R	952	954								RS1/10S223J
R	961	972								RS1/16S102J
R	962									RS1/16S124J
R	981									RD1/4PU221J
R	982									RS1/10S221J
R	983									RS1/16S122J
R	992									RS1/10S472J
CAPACITORS										
C	401	402	462	489	492	559	607			CKSQYB104K16
C	403	415	416							CKSQYB102K50
C	404	407	485	486	560	662	664			CEA100M16LL
C	405	406	408	409	413	414	439	440		CEA010M50LL
C	441	442								CKSQYB473K16
C	451	452								CKSQYB822K50
C	453	454	556	561						CEA010M50LL
C	457	458								CKSQYB152K50
C	459	460	467	468						CEA100M10NPLL
C	461	913	972	974						CEA470M10LL
C	463									CEA100M16LL
C	465	466								CKSQYB183K25
C	469	470								CKSYB334K16
C	471	472	510	512	514	520	525	526	661	CKSQYB103K25
C	473	474								CKSYB105K16
C	475	476								CKSQYB823K25
C	481	482								CEA4R7M35LL
C	487	488								CKSQYB333K25
C	490									CKSQYB562K50
C	491	921								CKSQYB473K16
C	493	494								CEA100M16LL
C	501	502								CCSQCH150J50
C	503									CCSQCH101J50
C	504	509	532							CEA220M6R3LL
C	506	530								CKSQYB103K25
C	507									CEA220M16LL
C	508									CKSQYB103K25
C	511	513			4.7µF/16V					CCH1165
C	515	555								CEA330M10LL
C	516	517	519							CKSQYB103K25
C	518									CKSQYB103K25
C	521									CKLSR473K16
C	522									CKSQYB223K25
C	523	528	663							CKSQYB223K25
C	524									CKSQYB103K25
C	527									CKSQYB223K25
C	531									CCSQCH101J50
C	534									CKSQYB103K25
C	535	536								CKSQYB103K25
C	538									CKSQYB103K25
C	541									CKSQYB103K25
C	542									CCSQCH101J50
C	544									CKSQYB332K50
C	545									CKSQYB103K25
C	546	547								CKSQYB472K50
C	548	549								CCSQCH101J50
C	551	552	553	554						CKSYB224K16
C	557	911			1000µF/16V					CCH1149
C	558				3300µF/16V					CCH1150
C	601	605								CCSQCH330J50

=====Circuit Symbol & No. Part Name=====										Part No.
C	602									CCSQCH120J50
C	603									CEA4R7M35LL
C	604	606	665	666						CCSQCH101J50
C	608									CKSQYB103K25
C	609	915								CKSQYB103K25
C	613	615								CCSQCH101J50
C	614									CCSQCH101J50
C	831	832								CCSCH221J50
C	833	834								CKSQYB221K50
C	858									CEA220M16LL
C	912									CKSQYB103K25
C	914				0.22F/5.5V					CCL1037
C	961									CEA2R2M50LL
C	971	983								CKSQYB104K16
C	973									CEA101M10LL
C	975				330µF/10V					CCH1181
C	982									CKSYB105K16
C	984									CEA101M10LS
C	991									CEA4R7M16LS2

Unit Number : CWX1914(DEX-P88/UC)
Unit Name : Tuner Amp Unit

MISCELLANEOUS

IC	401									TA2050S
IC	402									CA0008AM
IC	451									PM0008AF
IC	501									PM2004A
IC	601									PD4636A
IC	921									TPD1018F
IC	931									TPD1018F
IC	961									S-80734ANDYI
IC	971									PA2024A
Q	402									2SA1037K
Q	403									DTC124EK
Q	501	653	665	667						2SC2412K
Q	502									DTC124EK
Q	602									DTC124EK
Q	603									DTA114EK
Q	651	662	845	981						IMD2A
Q	661	670								2SC3295
Q	664	911								2SD1760F5
Q	666									2SB1238
Q	668									2SD1864
Q	669									2SA1037K
Q	951									IMX1
Q	983									2SD2396
Q	991									2SC2412K
D	501	661	971							DAN202K
D	651	652	901	902	911	921	922			ERA15-02VH
D	654				LED					BR4361F
D	662	666	667	668						DA204K
D	663	665								MA3062M
D	664									MA3039L
D	912									HZS6LB1
D	951									MA3082L
D	952									MA3075H
D	961									DAN212K
D	982									HZS9LB1
L	501	503	601	602	Ferri-Inductor					LAU2R2K
L	502				Ferri-Inductor					CTF-157
L	651	662			Ferri-Inductor					LAU2R2K
L	661				Transformer					CTT1038
TC	601				Trimmer					CCL1017
TH	601				Thermistor					CCX1031
X	501				Crystal 7.200MHz					CSS1379
X	601				Oscillator 6.291456MHz					CSS1303
S	961				Switch(Reset)					CSG1046
IL	661				Lamp 40mA14V					CEL1263

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

=====Circuit Symbol & No. Part Name=====	Part No.
FM/AM Tuner Unit	CWE1417
High Output Unit	CWX1922
EF 901 EMI Filter	CCG1006
BZ 601 Buzzer	CPV1011
RESISTORS	
R 401 402 455 456	RS1/16S101J
R 403	RS1/16S620J
R 404 504	RS1/16S222J
R 405 406 414 415 419 420 457 493 494 525	RS1/16S102J
R 407 408	RS1/16S473J
R 409	RS1/16S223J
R 410 411 461 521 522 523	RS1/16S472J
R 412 417	RS1/16S181J
R 413 416 619 655 677	RS1/16S223J
R 421 422	RS1/16S332J
R 423 511	RS1/16S103J
R 439 440	RS1/16S162J
R 441 442	RS1/16S0R0J
R 445 446 518	RS1/16S0R0J
R 447 448	RS1/16S0R0J
R 451 452	RS1/16S272J
R 453 454	RS1/16S151J
R 458 661 672 686 912	RS1/16S103J
R 462	RA3C472J
R 495 496	RS1/16S333J
R 501 509	RS1/16S0R0J
R 502 507 973 974 984	RS1/16S472J
R 503 505 601 602 604 663 678	RS1/16S222J
R 506	RS1/16S681J
R 508	RS1/16S682J
R 510	RS1/16S561J
R 512	RS1/16S222J
R 513	RS1/16S152J
R 514	RS1/16S392J
R 515	RS1/16S392J
R 516	RS1/16S102J
R 517 638	RS1/16S102J
R 520	RS1/16S473J
R 524 609 625 632 649	RS1/16S473J
R 526	RS1/16S562J
R 527 629 630 633 637 639 652	RS1/16S102J
R 528	RS1/16S473J
R 530	RS1/16S682J
R 531	RS1/16S102J
R 534	RS1/16S472J
R 535	RS1/16S272J
R 536	RS1/16S103J
R 537	RS1/16S332J
R 538	RS1/16S0R0J
R 605 606 607 608	RS1/16S681J
R 610 611 614 618 620 621 622 623	RS1/16S473J
R 624	RS1/16S473J
R 626	RN1/10SE223D
R 627	RS1/16S393J
R 628 631 635 653 690 882	RS1/16S473J
R 636	RS1/16S681J
R 651	RS1/16S103J
R 654 657	RS1/16S103J
R 656	RS1/16S272J
R 662 685	RS1/16S224J
R 667	RS1P100JL
R 668	RD1/4PU471J
R 669 682	RS1/10S222J
R 670	RS1P681JL
R 673	RS1/16S204J

=====Circuit Symbol & No. Part Name=====	Part No.
R 674 971	RS1/16S104J
R 675	RS1/10S241J
R 676	RS1/10S512J
R 679	RS1/8S222J
R 680 681	RS1/8S472J
R 683 684	RS1/10S472J
R 687	RS1/16S472J
R 796 797	RS1/16S0R0J
R 881	RS1/10S182J
R 911	RS1/10S101J
R 921 991 993	RS1/10S103J
R 951 953	RS1/10S473J
R 952 954	RS1/10S223J
R 961 972	RS1/16S102J
R 962	RS1/16S124J
R 981	RD1/4PU221J
R 982	RS1/10S221J
R 983	RS1/16S122J
R 992	RS1/10S472J
CAPACITORS	
C 401 402 462 489 492 559 607	CKSQYB104K16
C 403 415 416	CKSQYB102K50
C 404 407 662 664	CEA100M16LL
C 405 406 408 409 413 414 439 440	CEA010M50LL
C 441 442	CKSQYB473K16
C 451 452	CKSQYB822K50
C 453 454	CEA010M50LL
C 457 458	CKSQYB152K50
C 459 460 467 468	CEA100M10NPLL
C 461 913 972 974	CEA470M10LL
C 463	CEA100M16LL
C 464 961	CEA2R2M50LL
C 465 466	CKSQYB183K25
C 469 470	CKSYB334K16
C 471 472 510 512 514 520 525 526 652 661	CKSQYB103K25
C 473 474	CKSYB105K16
C 475 476	CKSQYB823K25
C 487 488	CKSQYB333K25
C 490	CKSQYB562K50
C 491 921	CKSQYB473K16
C 493 494	CEA100M16LL
C 501 502	CCSQCH150J50
C 503	CCSQCH101J50
C 504 509 532	CEA220M6R3LL
C 506 530	CKSQYB103K25
C 507	CEA220M16LL
C 508	CKSQYB103K25
C 511 513 4.7µF/16V	CCH1165
C 515	CEA330M10LL
C 516 517 519	CKSQYB103K25
C 518	CKSQYB103K25
C 521	CKLSR473K16
C 522	CKSQYB223K25
C 523 528 663	CKSQYB223K25
C 524	CKSQYB103K25
C 527	CKSQYB223K25
C 531	CCSQCH101J50
C 534	CKSQYB103K25
C 535 536	CKSQYB103K25
C 538	CKSQYB103K25
C 541	CKSQYB103K25
C 542	CCSQCH101J50
C 544	CKSQYB332K50
C 545	CKSQYB103K25
C 546 547	CKSQYB472K50

=====Circuit Symbol & No. Part Name=====		Part No.
C 548 549		CCSQCH101J50
C 557 911	1000µF/16V	CCH1149
C 558	3300µF/16V	CCH1150
C 601 605		CCSQCH330J50
C 602		CCSQCH120J50
C 603		CEA4R7M35LL
C 604 606 665 666		CCSQCH101J50
C 608		CKSQYB103K25
C 609 915		CKSQYB103K25
C 613 615		CCSQCH101J50
C 614		CCSQCH101J50
C 858		CEA220M16LL
C 912		CKSQYB103K25
C 914	0.22F/5.5V	CCL1037
C 931		CKSQYB473K16
C 971 983		CKSQYB104K16
C 973		CEA101M10LL
C 975	330µF/10V	CCH1181
C 982		CKSYB105K16
C 984		CEA101M10LS
C 991		CEA4R7M16LS2

Unit Number : CWX1889
Unit Name : Control Unit

MISCELLANEOUS

IC 101		UPC2572GS
IC 201		UPD63702GF
IC 301		XLA6997FP
IC 302		XRA6285FP
IC 601		TA2063F
IC 701		PQ05TZ51
Q 101		2SD1664
Q 102		UMD2N
Q 601 602		2SD1781K
Q 603		2SB709A
D 601		MA151WA
D 701 702		1SR154-400
D 801 802	LED	CL200IRX
X 201	Ceramic Resonator 16.93MHz	CSS1363
S 801 802	Switch(Home, Clamp)	CSN1028

RESISTORS

R 101	RS1/8S100J
R 102	RS1/8S120J
R 103	RS1/16S102J
R 104	RS1/16S822J
R 105	RS1/16S682J
R 106	RS1/16S183J
R 107	RS1/16S822J
R 108	RS1/16S333J
R 109	RS1/16S683J
R 110	RS1/16S134J
R 111	RS1/16S273J
R 112	RS1/16S222J
R 113 114 607	RS1/16S103J
R 115	RS1/16S102J
R 116 117	RS1/16S163J
R 201	RS1/16S104J
R 202	RS1/16S473J
R 304 501	RS1/16S0R0J
R 505	RS1/16S102J
R 507	RA4C102J
R 508	RA4C681J
R 510	RS1/10S0R0J
R 601 602	RS1/16S102J
R 603 604	RS1/16S223J
R 605 606	RS1/16S162J

=====Circuit Symbol & No. Part Name=====		Part No.
R 801 802		RS1/8S751J

CAPACITORS

C 101 601 703		CEV101M6R3
C 102		CKSQYB104K16
C 103		CEV470M6R3
C 104		CKSYB334K16
C 105		CCSRCH330J50
C 106 304		CKSRYB103K25
C 107 603 604		CEV4R7M35
C 108		CKSQYB273K50
C 109		CCSRCH101J50
C 110 202		CKSQYB104K16
C 111		CKSRYB332K50
C 112		CKSQYB473K16
C 113		CKSRYB103K25
C 114		CKSRYB391K50
C 115		CCSRCH121J50
C 116		CKSRYB682K25
C 117		CKSRYB333K16
C 118 201		CKSYB334K16
C 119		CKSYB334K16
C 120 121 702		CKSYB334K16
C 122 124		CKSQYB104K16
C 123		CKSRYB472K50
C 125		CCSRCH060D50
C 126		CKSRYB153K25
C 127		CCSRCH102J25
C 203		CKSQYB104K16
C 303		CEV470M16
C 305 306		CKSRYB103K25
C 502		CKSRYB471K50
C 602		CKSQYB104K16
C 605 606		CKSRYB152K50
C 607		CEV220M6R3
C 701	22µF/6.3V	CCH1233
C 901 903		CCSRCH471J50
C 902		CCSRCH271J50
C 904		CCSRCH101J50

Unit Number :
Unit Name : Detector P.C.Board

Q	1	2	Photo Transistor

Miscellaneous Parts List

	PU Unit	CGY1070
M 1	Motor Unit(Spindle)	CXA9100
M 2	CRG Motor Unit(Carriage)	CXA8986
M 3	Load Motor Unit(Loading)	CXA8702
S 1930	Switch(Close)	CSN1027

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● The DEH-P725/UC, DEH-P725-W/UC, and DEH-P723/ES Tuner Amp Unit Parts Lists enumerate the parts which differ from those enumerated in the DEH-P725R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P725R/EW Tuner Amp Unit Parts List is given on page 31.

Tuner Amp Unit

Tuner Amp Unit	DEH-P725R/EW DEH-P725R-W/EW CWX1916	DEH-P725/UC DEH-P725-W/UC CWX1915	DEH-P723/ES CWX1917
Circuit Symbol & No.	Part No.	Part No.	Part No.
IC402	HA12187FP	CA0008AM	CA0008AM
IC601	PD4636A	PD4635A	PD4636A
IC701	PD6164A	PD6165A	·····
IC702	·····	PD4633A	·····
IC703	PMW001A	·····	·····
IC704	SC14SU69F	·····	·····
Q 433,434	2SD1757K	·····	·····
Q 651	IMD2A	·····	IMD2A
Q 653	2SC2412K	·····	2SC2412K
Q 701	DTC143TK	·····	·····
Q 835	·····	IMH3A	·····
Q 941	2SA1037K	·····	2SA1037K
D 431,702	DAN212K	·····	·····
D 651,652	ERA15-02VH	·····	ERA15-02VH
D 654	BR4361F	·····	BR4361F
D 701	MA3047M	·····	·····
D 838	·····	DAP202K	·····
D 941	DAN202K	·····	DAN202K
L 651	LAU2R2K	·····	LAU2R2K
L 701	LAU101K	LAU101K	·····
L 702	·····	LAU2R2K	·····
L 703	LCTB2R2K3216	·····	·····
L 941	LAU2R2K	·····	LAU2R2K
X 701	CSS1056	CSS1338	·····
VR701	CCP1123	·····	·····
R 433,434	RS1/16S223J	·····	·····
R 435,436	RS1/16S224J	·····	·····
R 437	RS1/16S824J	·····	·····
R 439,440	RS1/16S272J	RS1/16S162J	RS1/16S162J
R 443,444	RS1/16S222J	·····	·····
R 447,448	·····	RS1/16S0R0J	RS1/16S0R0J
R 457,652	RS1/16S102J	·····	RS1/16S102J
R 458	RS1/16S103J	·····	RS1/16S103J
R 501	RS1/16S0R0J	RS1/16S0R0J	·····
R 519	RS1/16S472J	·····	·····
R 520	RS1/16S562J	RS1/16S473J	RS1/16S473J
R 612,613	RS1/16S473J	RS1/16S473J	·····
R 615	RS1/16S472J	RS1/16S472J	·····
R 616,721	RS1/16S473J	RS1/16S473J	·····
R 624	·····	·····	RS1/16S473J
R 625	RS1/16S473J	RS1/16S473J	·····
R 651	RS1/16S103J	·····	RS1/16S103J
R 653	RS1/16S473J	·····	RS1/16S473J
R 654	·····	·····	·····
R 655	RS1/16S223J	·····	RS1/16S223J
R 656	RS1/16S272J	·····	RS1/16S272J
R 657	·····	·····	·····
R 704	RS1/16S222J	·····	·····
R 706	RS1/16S473J	·····	·····
R 707	RS1/16S105J	RS1/16S105J	·····

Tuner Amp Unit	DEH-P725R/EW DEH-P725R-W/EW CWX1916	DEH-P725/UC DEH-P725-W/UC CWX1915	DEH-P723/ES CWX1917
Circuit Symbol & No.	Part No.	Part No.	Part No.
R 708	RS1/16S681J	RS1/16S681J	·····
R 710	RA3C681J	RA3C681J	·····
R 711,725	RS1/16S681J	·····	·····
R 712	RA3C681J	·····	·····
R 713,716	RS1/16S681J	RS1/16S681J	·····
R 714	RS1/16S222J	RS1/16S0R0J	·····
R 715	RS1/16S222J	·····	·····
R 717-720	·····	RS1/16S473J	·····
R 726-730	·····	RS1/16S473J	·····
R 731	RS1/16S102J	·····	·····
R 732	RS1/16S473J	·····	·····
R 733	RS1/16S0R0J	·····	·····
R 735,736	·····	RA4C102J	·····
R 737,738	·····	RA3C102J	·····
R 739,740	·····	RA4C102J	·····
R 741,742	·····	RA3C102J	·····
R 746-748	RS1/16S102J	·····	·····
R 749	RS1/16S0R0J	·····	·····
R 750	RS1/16S333J	·····	·····
R 751	RD1/4PU151J	·····	·····
R 752-754	RS1/16S102J	·····	·····
R 755,756	RS1/16S223J	·····	·····
R 837,838	·····	RS1/16S473J	·····
R 841,842	·····	RS1/16S821J	·····
R 887,888	·····	RS1/16S0R0J	·····
R 941	RS1/10S183J	·····	RS1/10S183J
R 942,943	RS1/16S472J	·····	RS1/16S472J
R 944	RS1/16S102J	·····	RS1/16S102J
C 437,438	CEA010M50LL	·····	·····
C 441,442	CKSQYB223K25	CKSQYB473K16	CKSQYB473K16
C 443	CKSQYB103K25	·····	·····
C 464	CEA2R2M50LL	·····	CEA2R2M50LL
C 483,484	·····	CEA4R7M35LL	·····
C 505	·····	·····	CKSQYB103K25
C 529	CEAR47M50LL	·····	·····
C 540	CKSQYB152K50	·····	·····
C 652	CKSQYB103K25	·····	CKSQYB103K25
C 701	CKSQYB103K25	·····	·····
C 704,705	CCSQCH270J50	·····	·····
C 707	CKSQYB103K25	CKSQYB103K25	·····
C 708	·····	CEA100M16LL	·····
C 709,718	CEA100M16LL	·····	·····
C 710,713,717	CKSQYB104K16	·····	·····
C 711	CKSQYB102K50	·····	·····
C 712	CKSQYB472K50	·····	·····
C 714	CEA010M50LL	·····	·····
C 715	CKSYB104K16	·····	·····
C 716	CKSQYB222K50	·····	·····
C 721	CEA4R7M16NPLL	·····	·····
C 724	CKSQYB103K25	·····	·····
C 725,726	CCSQCH101J50	·····	·····
C 727,728	CCSQCH101J50	·····	·····
C 831,832	CCSCH221J50	CKSYB105K16	CCSCH221J50
C 835,836	·····	CKSQYB221K50	·····

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● The DEH-P725R-W/EW, DEX-P77R/EW, DEH-P725/UC, DEH-P725-W/UC, DEH-P723/ES, DEH-P625/UC and DEX-P88/UC Key Board P.C.Board Parts Lists enumerate the parts which differ from those enumerated in the DEH-P725R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P725R/EW Key Board P.C.Board Parts List is given on page 31.

Key Board P.C.Board

Circuit Symbol & No.	DEH-P725R/EW Part No.	DEH-P725R-W/EW Part No.	DEX-P77R/EW Part No.	DEH-P725/UC Part No.	DEH-P725-W/UC Part No.
IC 1901	PD6166A	PD6166A	PD6166A	PD6166A	PD6166A
D 1903	CL170FGCD	CL170DCD	CL170DCD	CL170FGCD	CL170DCD
D 1904-1923,1925-1935	CL170FGCD	CL170DCD	CL170DCD	CL170FGCD	CL170DCD
LCD1901	CAW1337	CAW1364	CAW1364	CAW1338	CAW1366

Circuit Symbol & No.	DEH-P725R/EW Part No.	DEH-P723/ES Part No.	DEH-P625/UC Part No.	DEX-P88/UC Part No.
IC 1901	PD6166A	PD6166A	PD6166A	PD6175A
D 1904-1923,1925-1935	CL170FGCD	CL170FGCD	CL170FGCD	CL170FGCD
D 1903	CL170FGCD	CL170FGCD	CL170FGCD	CL170FGCD
LCD1901	CAW1337	CAW1338	CAW1338	CAW1365

10. BLOCK DIAGRAM

● **DEH-P725R/EW**

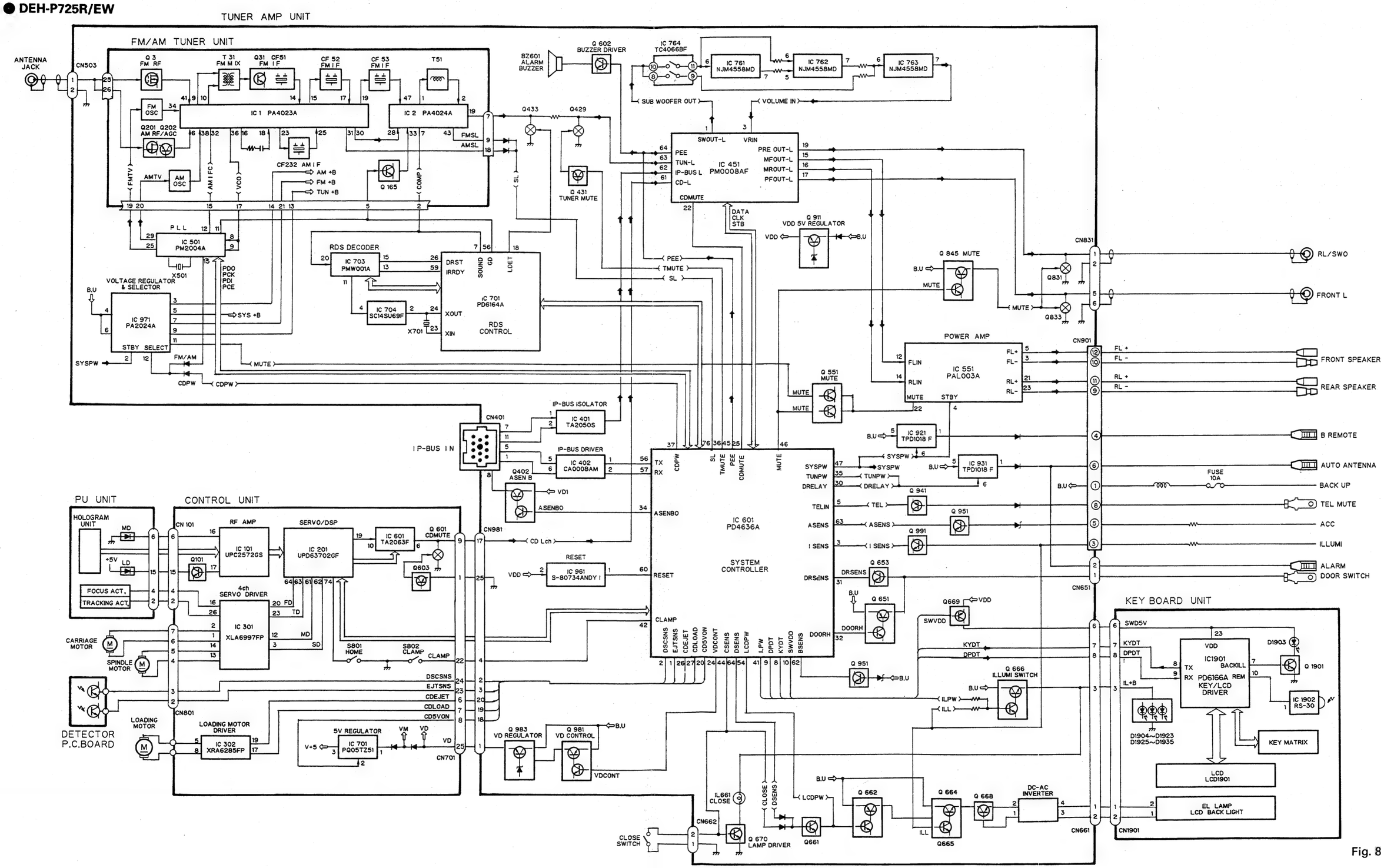


Fig. 8

11. CIRCUIT DIAGRAM AND PATTERN

11.1 TUNER ANP UNIT

NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

● **Connection Diagram**

IC. Q

ADJ

Q501

Q429

Q434 IC401

IC801 IC501 Q402 IC402 IC931
Q502 Q801 Q433 Q403 Q941
Q431 Q651 Q951 Q991 IC921

IC971 Q831 Q653

Q833 Q835

IC702 Q837 Q838 Q839 Q840

IC701 Q841 IC831 Q843 IC833

VR701

Q701 Q842 IC832 Q844 IC834

IC703 IC704 IC551

TC601

Q668 IC451 Q551
Q845
Q662

Q664 Q661 Q603 IC601
Q665 Q761 IC763

Q983 IC961 IC764 Q911

Q981 Q669 IC762 IC761 IC765

Q602 Q670 Q667 Q666

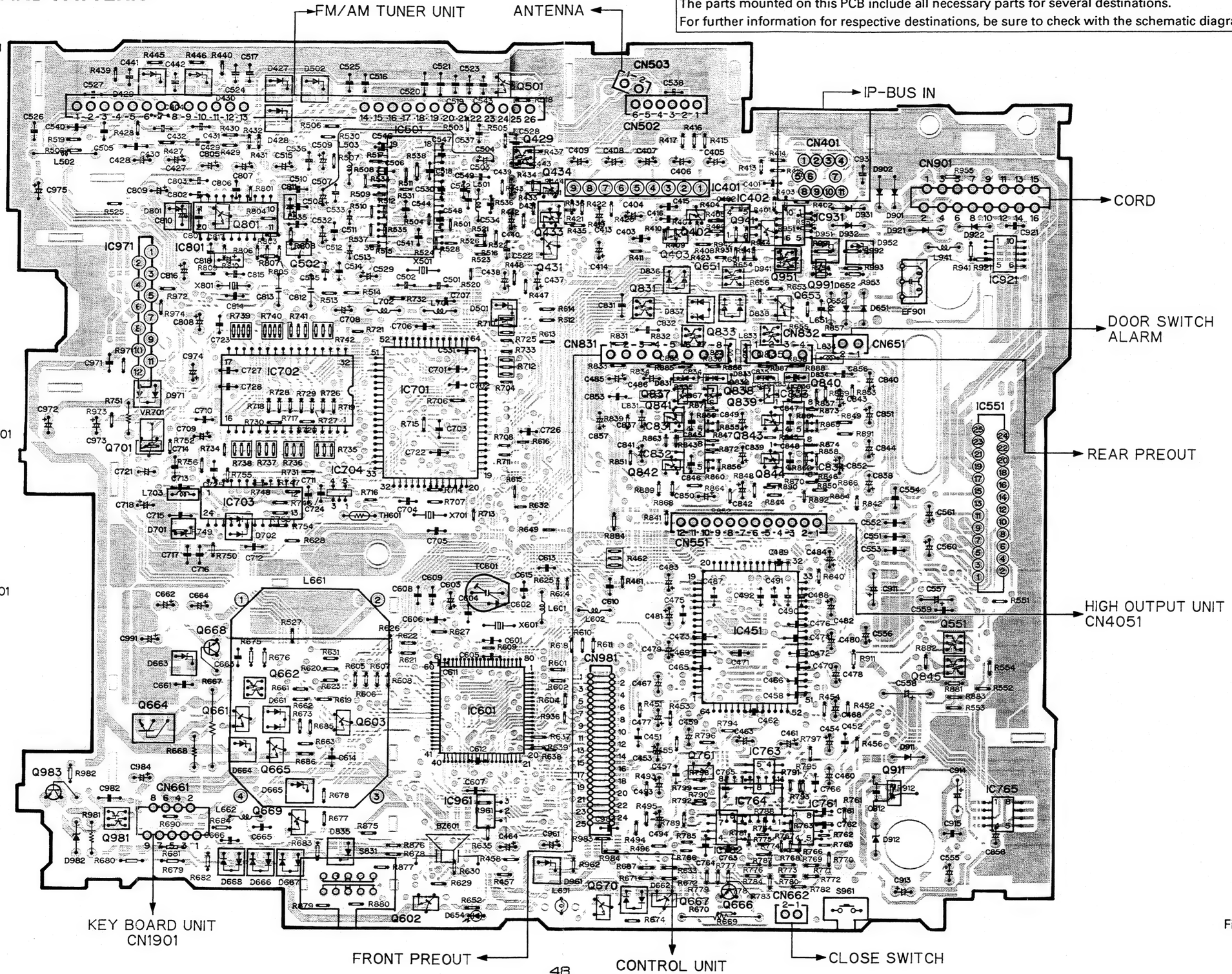
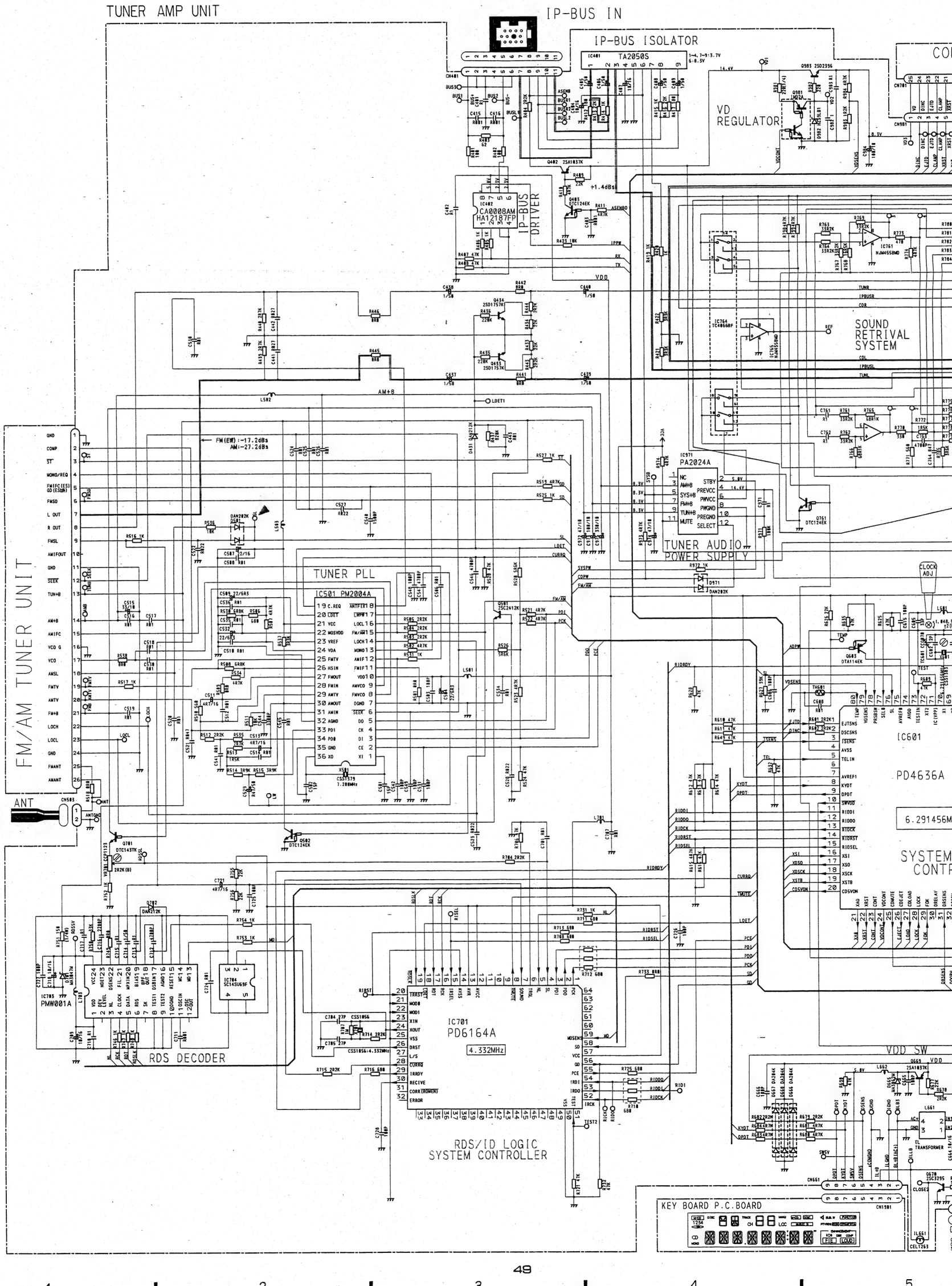
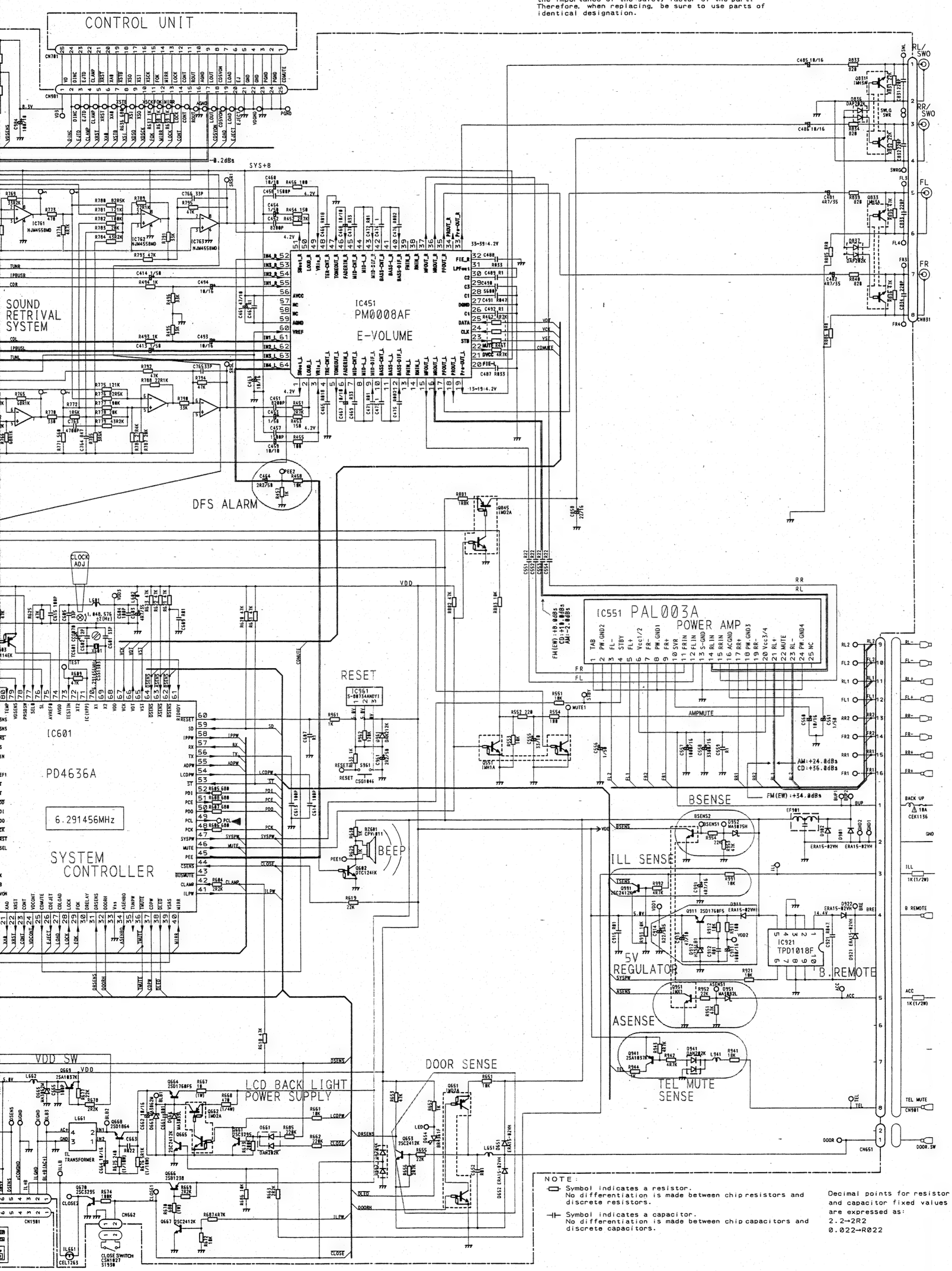


Fig. 9

● Circuit Diagram (DEH-P725R/EW, P725R-W/EW)



The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.



NOTE:

- ⊟ Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- ⊣⊢ Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

Fig. 10

● **Circuit Diagram (DEX-P77R/EW)**

TUNER AMP UNIT

IP-BUS IN

IP-BUS ISOLATOR

IC481 TA2050S

VD REGULATOR

IP-BUS DRIVER

IC482 CA0008AM HA12187FP

FM/AM TUNER UNIT

TUNER PLL

IC501 PM2004A

TUNER AUDIO POWER SUPPLY

IC971 PA2024A

RDS DECODER

IC703 PMW001A

IC784 SC145U69F

RDS/ID LOGIC SYSTEM CONTROLLER

IC701 PD6164A

4.332MHz

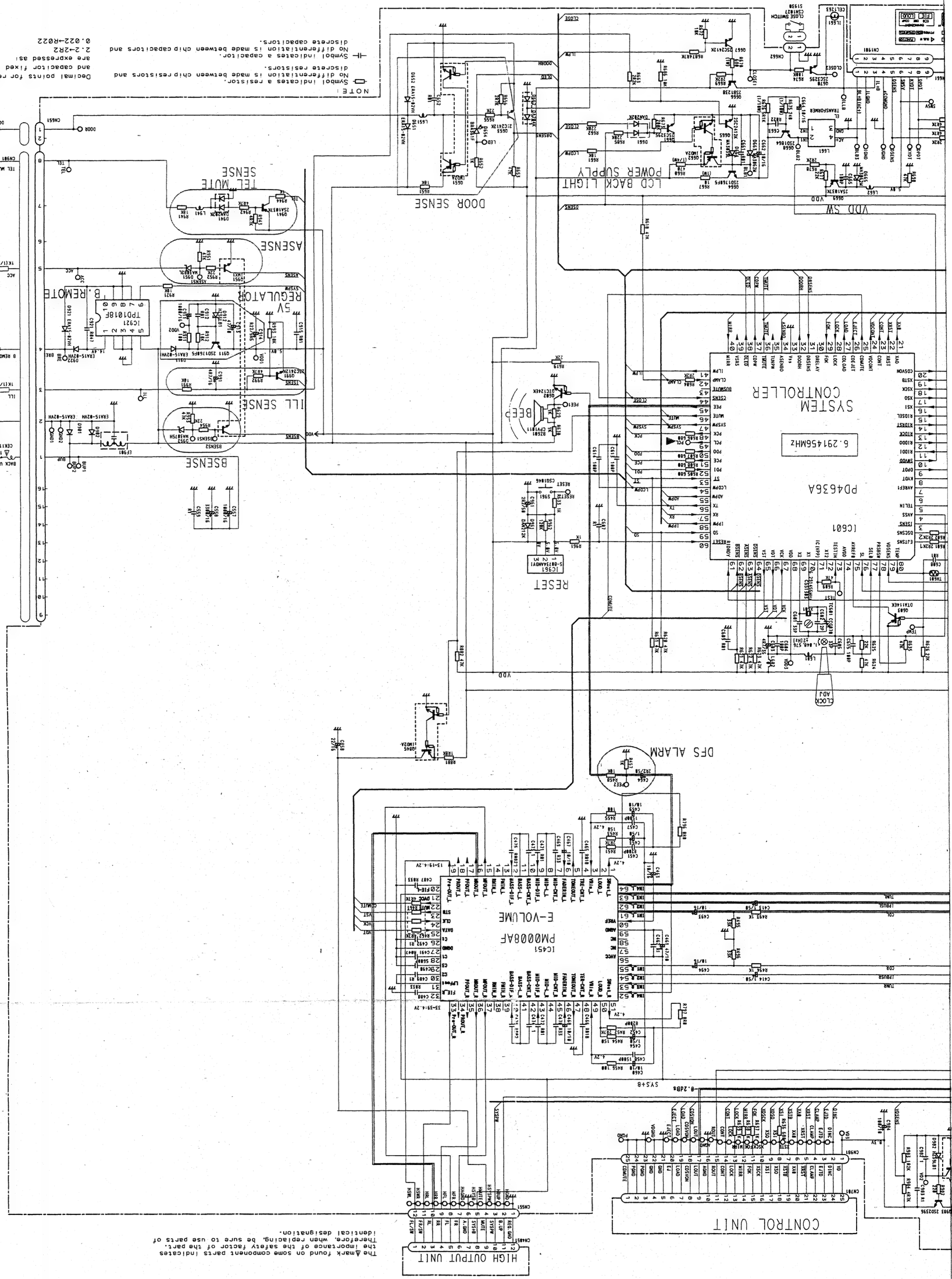
KEY BOARD P.C.BOARD

ANT

VDD SW

52

53


NOTE :
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022
The Δmark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
CONTROL UNIT
HIGH OUTPUT UNIT
SYSTEM CONTROLLER
PD4636A
IC601
6.29145MHz
E-VOLUME
PM0008AF
IC451
RESET
IC961
S-8054ANOV1
BEEP
LCD BACK LIGHT POWER SUPPLY
VDD SW
DOOR SENSE
TEL MUTE SENSE
ASENSE
5V REGULATOR
R. REMOTE
ILL SENSE
BSENSE
DFS ALARM
CLOCK
SYS+8
8.2dBs
CLOSE SWITCH CSW1027
CELL263
CN1981
CN662
CN661
CN981
CN982
CN551
CN451
CN901
CN651
CN652
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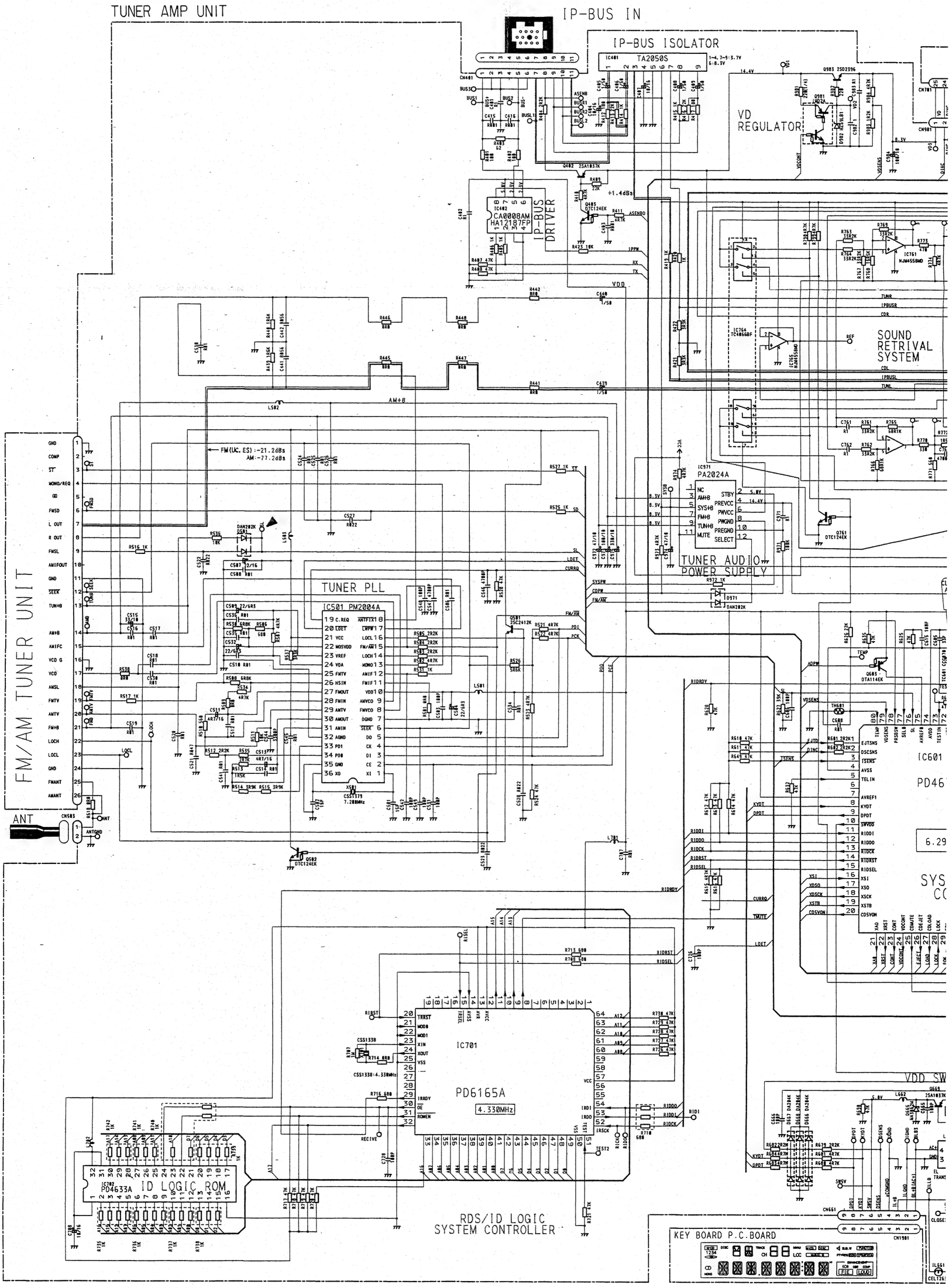
CN999
CN1000

Fig. 11

● **Circuit Diagram (DEH-P725/UC, P725-W/UC)**



The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

CONTROL UNIT

SOUND RETRIVAL SYSTEM

IC451 PM0008AF E-VOLUME

IC601 PD4635A SYSTEM CONTROLLER

6.291456MHz

RESET

BEEP

IC551 PAL003A POWER AMP

AMPMUTE

BSENSE

ILL SENS

5V REGULATOR

IC921 TPD1018F

B.REMOTE

ASENSE

VDD SW

LCD BACK LIGHT POWER SUPPLY

CLOCK ADJ

CLOSE SWITCH

NOTE :

- ⊏⊐ Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- ⊣⊢ Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

Fig. 12

● **Circuit Diagram (DEH-P723/ES)**

TUNER AMP UNIT

IP-BUS IN

IP-BUS ISOLATOR

IC481 TA2050S

VD REGULATOR

IP-BUS DRIVER

IC483 CA0008AM HA12187FP

SOUND RETRIVAL SYSTEM

IC761 NJM4558MD

IC764 TC4066BF

TUNER AUDIO POWER SUPPLY

IC971 PA2024A

TUNER PLL

IC501 PM2004A

FM/AM TUNER UNIT

ANT

CN503

IC601

PD4636A

SYSTEM CONTRO

6.291456MH

VDD SW

KEY BOARD P.C.BOARD

CN1501

CN661

CLOCK ADJ

EL TRANSFORMER

FM (UC, ES) : -21.2dBs
AM : -27.2dBs

AM+B

TUNR

IPBUSR

CDR

IPBUSL

TUNL

58

59

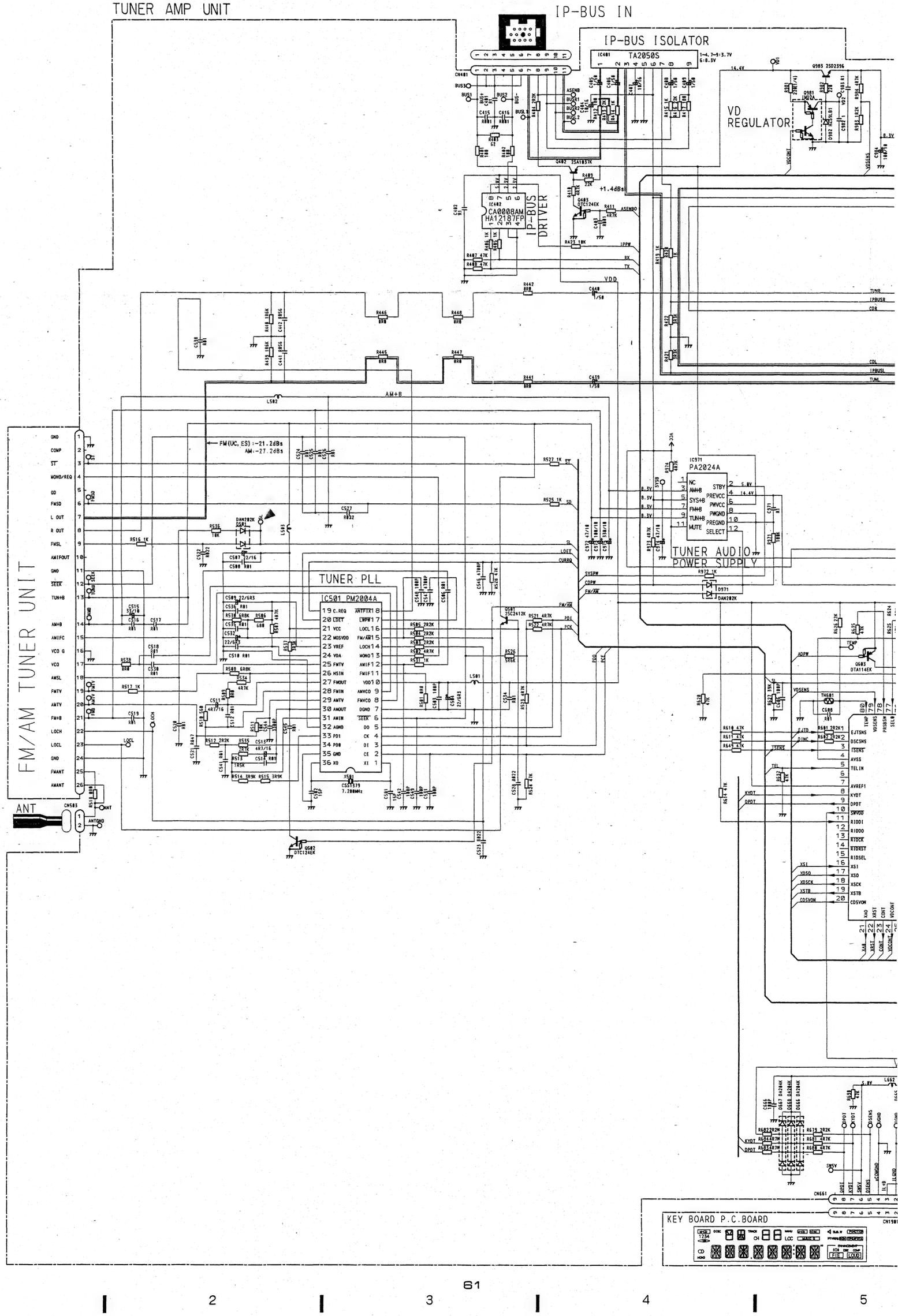
1 2 3 4 5

A B C D E F

NOTE :
Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.
Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022
IC551 PAL0034
POWER AMP
IC601
PD4636A
SYSTEM CONTROLLER
6.29145MHz
IC451
PM0008AF
E-VOLUME
CONTROL UNIT
LCD BACK LIGHT
POWER SUPPLY
DOOR SENSE
TEL MUTE SENSE
ASENSE
5V REGULATOR
B.REMOTE
ILL SENSE
BSENSE
BEEP
RESET
DFS ALARM
CLOCK ADJ
VDD SW
SYS+8
-8.2dB9
The Δmark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

Fig. 13

● Circuit Diagram (DEH-P625/UC)



The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

CONTROL UNIT

SYSTEM CONTROLLER

PD4636A

6.291456MHz

IC601

IC451 PM0008AF E-VOLUME

IC551 PAL003A POWER AMP

IC961 S-80754ANDY1 RESET

IC921 TPD1018F B.REMOTE

5V REGULATOR

BSENSE

ILL SENSE

ASENSE

BEEP

LCD BACK LIGHT POWER SUPPLY

VDD SW

CLOCK ADJ

AMPMUTE

AM:+24.0dBs
CD:+36.0dBs

FM(UC,ES):+30.0dBs

NOTE:
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

Fig.14

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● **Circuit Diagram (DEX-P88/UC)**

TUNER AMP UNIT

IP-BUS IN

IP-BUS ISOLATOR

IC481 TA2050S

VD REGULATOR

IP-BUS DRIVER

IC402 CA0008AM HA12187FP

TUNER PLL

IC501 PM2004A

TUNER AUDIO POWER SUPPLY

IC971 PA2024A

FM/AM TUNER UNIT

ANT

KEY BOARD P.C.BOARD

CN1981

64

65

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

HIGH OUTPUT UNIT

CONTROL UNIT

SYS+B

IC451
PM0008AF
E-VOLUME

IC601
PD4636A
6.291456MHz
SYSTEM CONTROLLER

RESET

BEEP

DFS ALARM

CLOCK ADJ

VDD SW

LCD BACK LIGHT POWER SUPPLY

DOOR SENSE

BSENSE

ILL SENSE

5V REGULATOR

ASENSE

B.REMOTE

AUDIO ANTENNA/ ALARM OUTPUT

NOTE:
- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

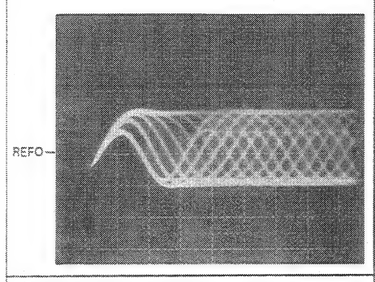
(A, B, C, D, G, H)

Fig.15

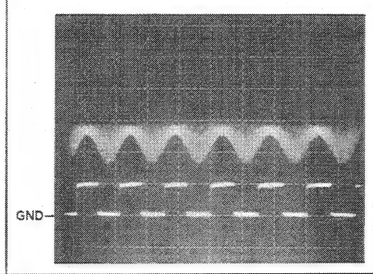
● Waveforms

Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.
2. Reference voltage
REFO: 2.5V

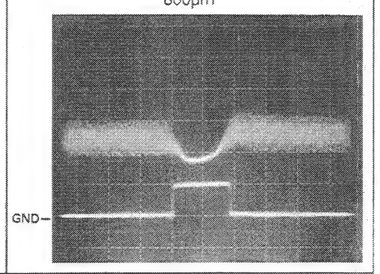
① RFO 0.5V/div. 0.5μs/div.
Normal mode: play



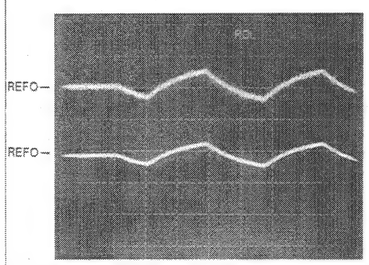
① CH1: RFO 1V/div.
② CH2: MIRR 5V/div. 0.5ms/div.
Test mode: Tracking open



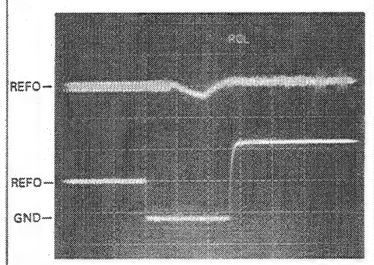
① CH1: RFO 1V/div.
② CH2: MIRR 5V/div. 0.5ms/div.
Normal mode: The defect part passes 800μm



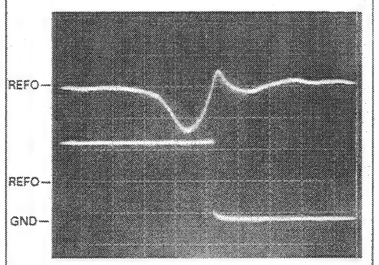
③ CH1: FIN 0.5V/div.
④ CH2: FO+ 2V/div. 0.2s/div.
Test mode: No disc, Focus close



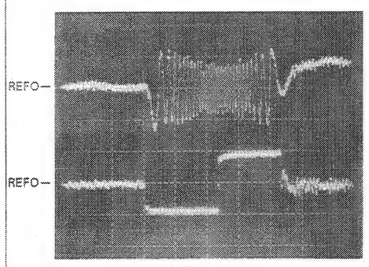
③ CH1: FIN 0.5V/div.
⑤ CH2: FOK 2V/div. 0.2s/div.
Normal mode: Focus close



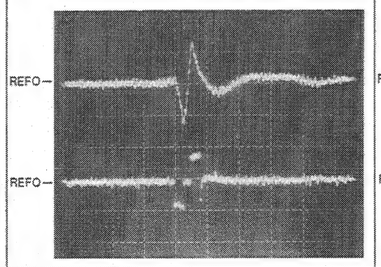
⑥ CH1: FEY 0.5V/div.
⑦ CH2: XSI 2V/div. 1ms/div.
Normal mode: Focus close



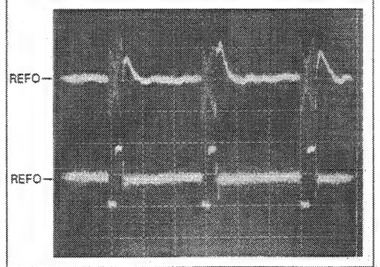
⑧ CH1: TEY 0.5V/div.
⑨ CH2: TIN 0.5V/div. 0.5ms/div.
Test mode: 32 tracks jump (FWD)



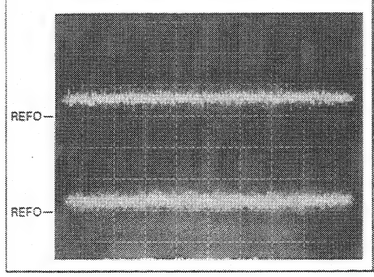
⑧ CH1: TEY 0.5V/div.
⑨ CH2: TIN 0.5V/div. 0.5ms/div.
Test mode: Single jump (FWD)



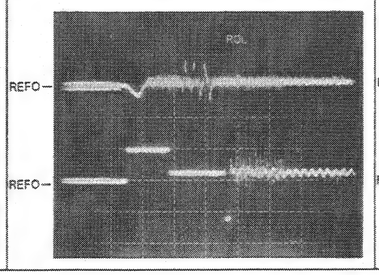
⑧ CH1: TEY 0.5V/div.
⑨ CH2: TIN 0.5V/div. 5ms/div.
Test mode: 100 tracks jump (FWD)



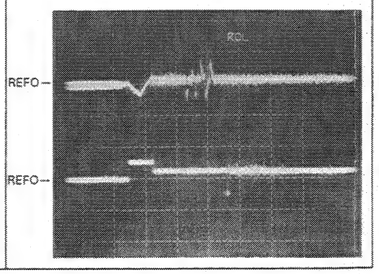
⑥ CH1: FEY 0.1V/div.
③ CH2: FIN 0.2V/div. 20ms/div.
Normal mode: Play



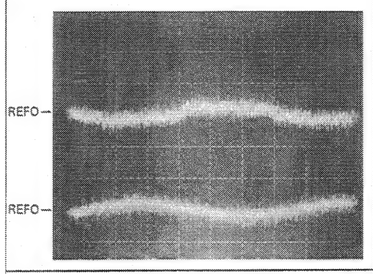
③ CH1: FIN 0.5V/div.
⑩ CH2: SIN 1V/div. 0.5s/div.
Normal mode: Focus close (12cm)



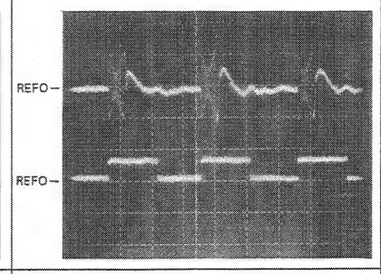
③ CH1: FIN 0.5V/div.
⑩ CH2: SIN 1V/div. 0.5s/div.
Normal mode: Focus close (8cm)



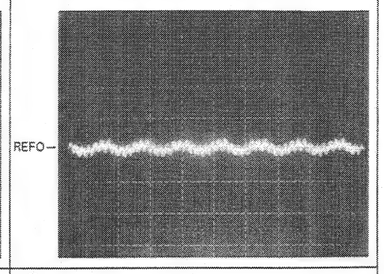
⑧ CH1: TEY 0.2V/div.
⑨ CH2: TIN 0.2V/div. 20ms/div.
Normal mode: Play



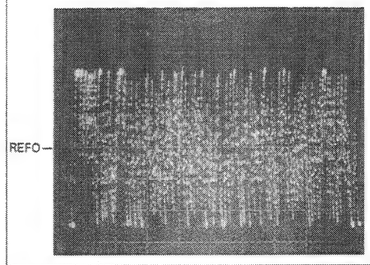
⑧ CH1: TEY 0.5V/div.
⑪ CH2: SD 0.5V/div. 5ms/div.



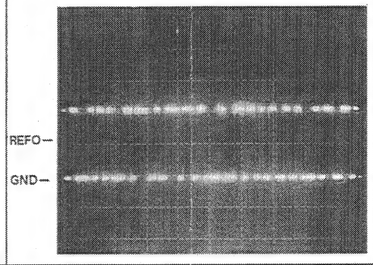
⑩ SIN 0.5V/div. 0.1s/div.
Normal mode: Play (12cm)



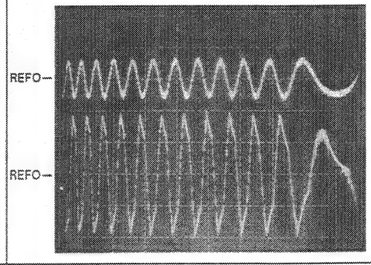
⑩ SIN 0.5V/div. 10ms/div.
Long Search (12cm)



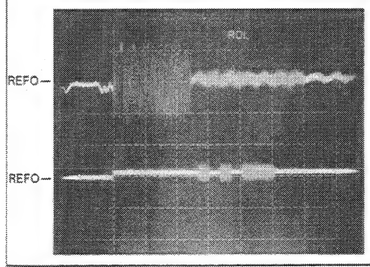
⑫ EFM 1V/div. 5μs/div.
Play



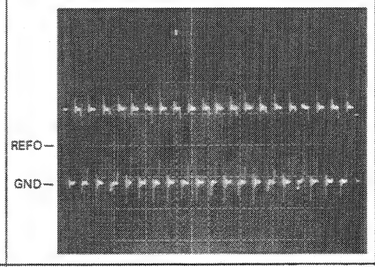
⑧ CH1: TEY 1V/div.
⑬ CH2: TEC 1V/div. 2ms/div.
Test mode: Focus close
Tracking open



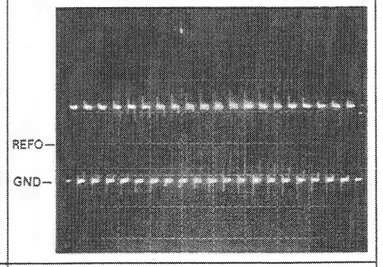
⑧ CH1: TEY 0.5V/div.
⑥ CH2: FEY 0.5V/div. 0.2s/div.
Normal mode: AGC after focus close



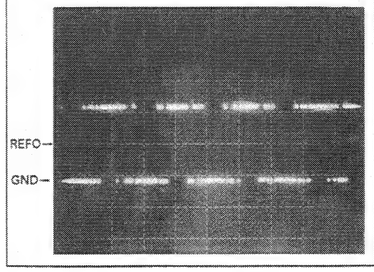
⑭ PLCK 2V/div. 0.5μs/div.
Play



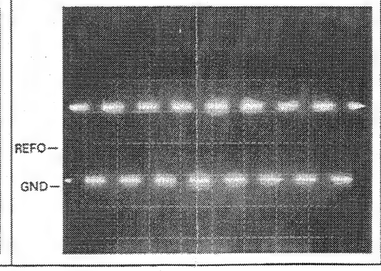
⑮ SCKO 2V/div. 1μs/div.
Play



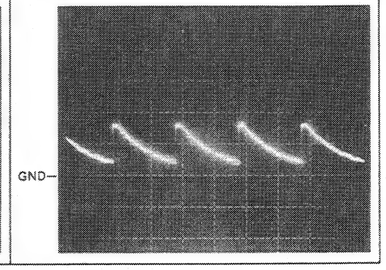
⑯ Dout 2V/div. 10μs/div.
Play

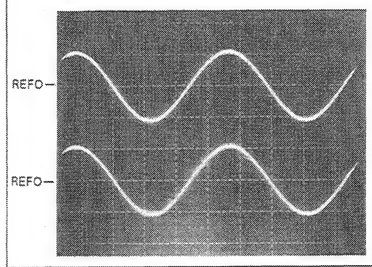
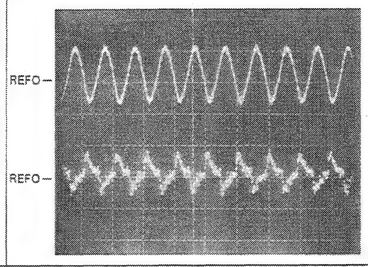
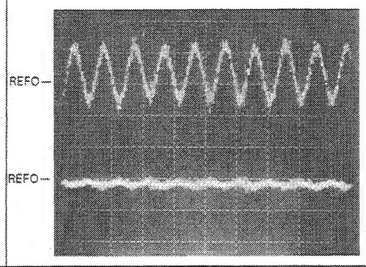
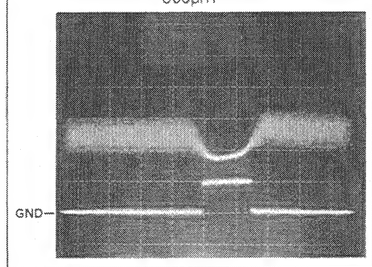
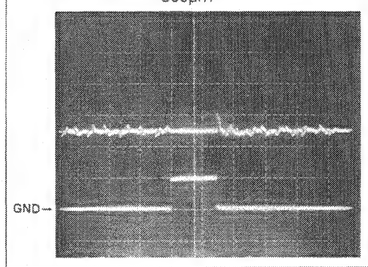


⑰ LRCK 2V/div. 20μs/div.



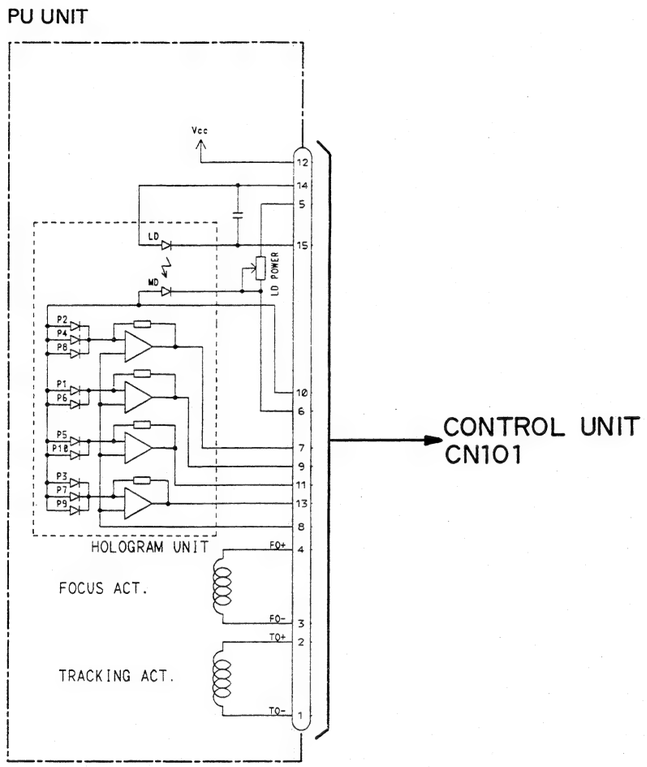
⑱ VD 5V/div. 50ms/div.
Normal mode: No disc

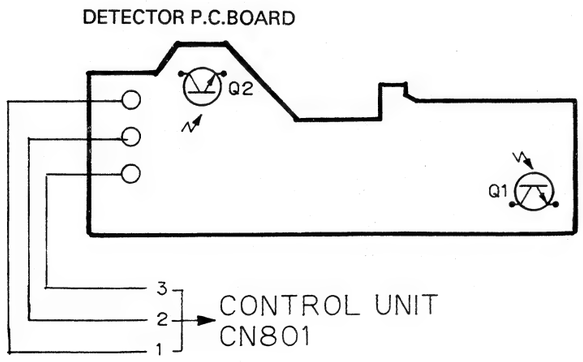


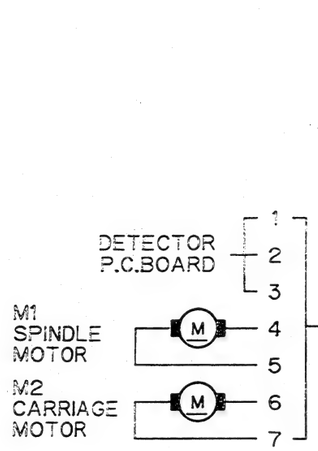
⑲ CH1: R OUT 1V/div. ⑳ CH2: L OUT 1V/div. 0.2ms/div. Normal mode: Play (1kHz 0dB) 	⑥ CH1: FEY 0.2V/div. ③ CH2: FIN 0.5V/div. 1ms/div. Normal mode: During AGC 	⑧ CH1: TEY 0.2V/div. ⑨ CH2: TIN 0.5V/div. 1ms/div. Normal mode: During AGC 
① CH1: RFO 1V/div. ㉑ CH2: HOLD 5V/div. 0.5ms/div. Normal mode: The defect part passes 800µm 	③ CH1: FIN 1V/div. ㉑ CH2: HOLD 5V/div. 0.5ms/div. Normal mode: The defect part passes 800µm 	

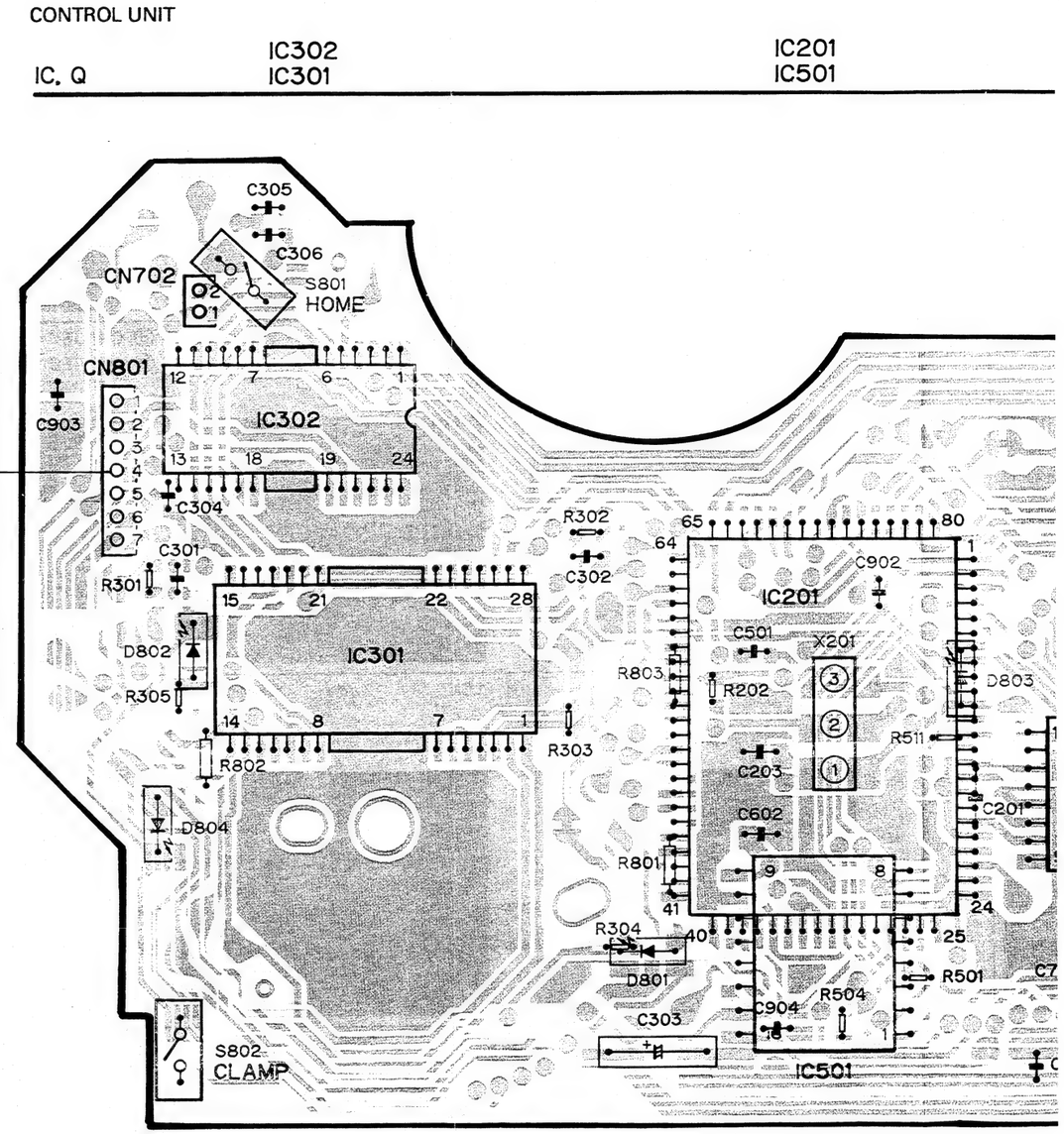
11.2 CD MECHANISM MODULE

● **Connection Diagram**









NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

CONTROL UNIT

IC, Q

IC302
IC301

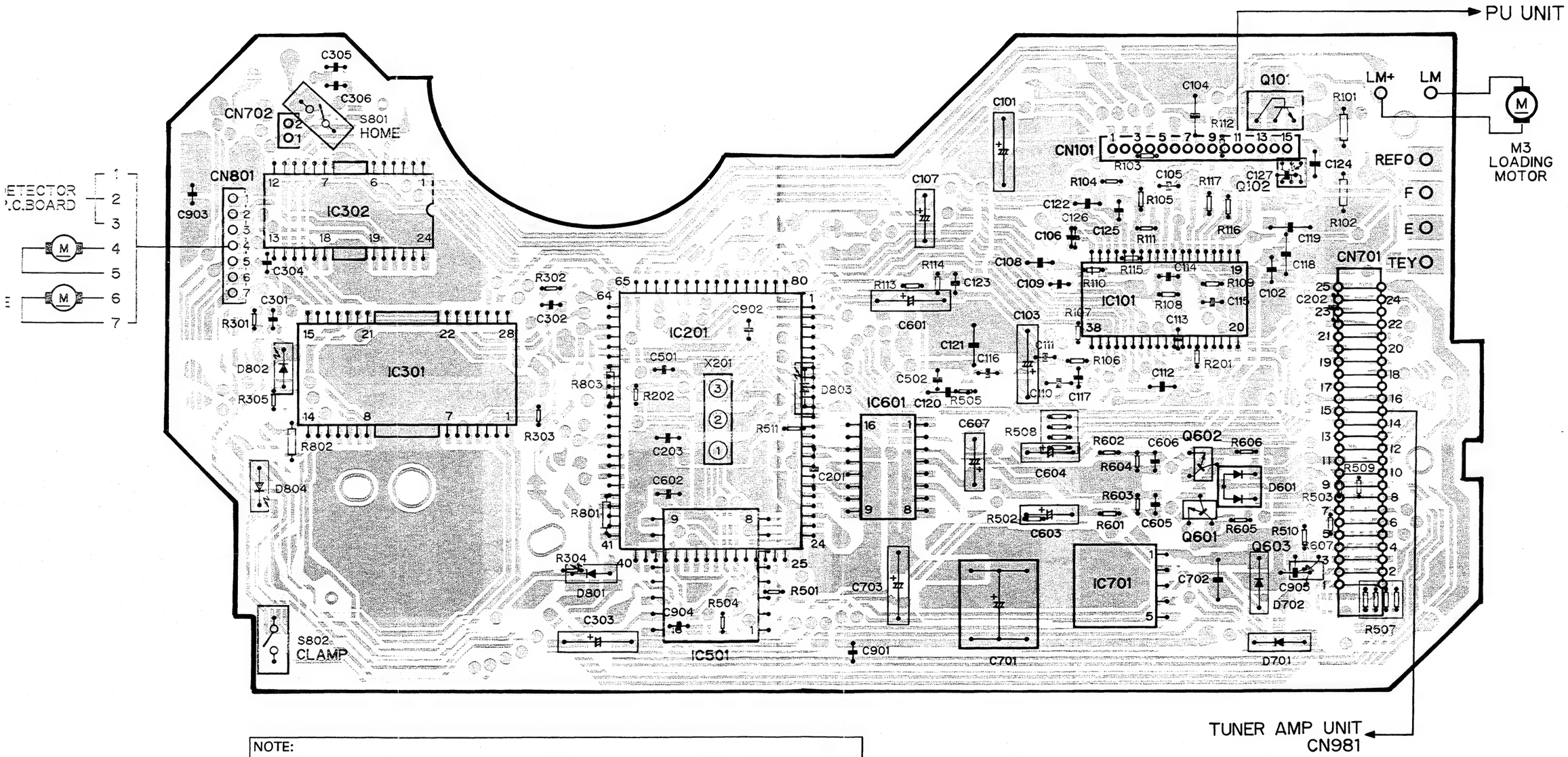
IC201
IC501

IC601

IC701

IC101
Q602
Q601

Q101
Q102
Q603



NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagrarn.

Fig. 16

● Circuit Diagram

PU UNIT(CGY1070)　CONTROL UNIT

RF AMP/AUTO POWER CONTROL

IC101　UPC2572GS

IC301　XLA6997FP

CD DRIVER

REGULATOR

LOADING DRIVER

IC302　XRA6285FP

DETECTOR P.C.BOARD

HOLOGRAM UNIT

FOCUS ACT.

TRACKING ACT.

SPINDLE M1 CXA9100

CARRIAGE M2 CXA8986

LOADING M3 CXA8702

SL　SIGNAL LINE
F　FOCUS SERVO LINE
T　TRACKING SERVO LINE
C　CARRIAGE SERVO LINE
S　SPINDLE SERVO LINE

SWITCHES:
CONTROL UNIT
S801:HOME SWITCH·····ON-OFF
S802:CLAMP SWITCH·····ON-OFF
The underlined indicates the switch position.

1　2　3　4　5

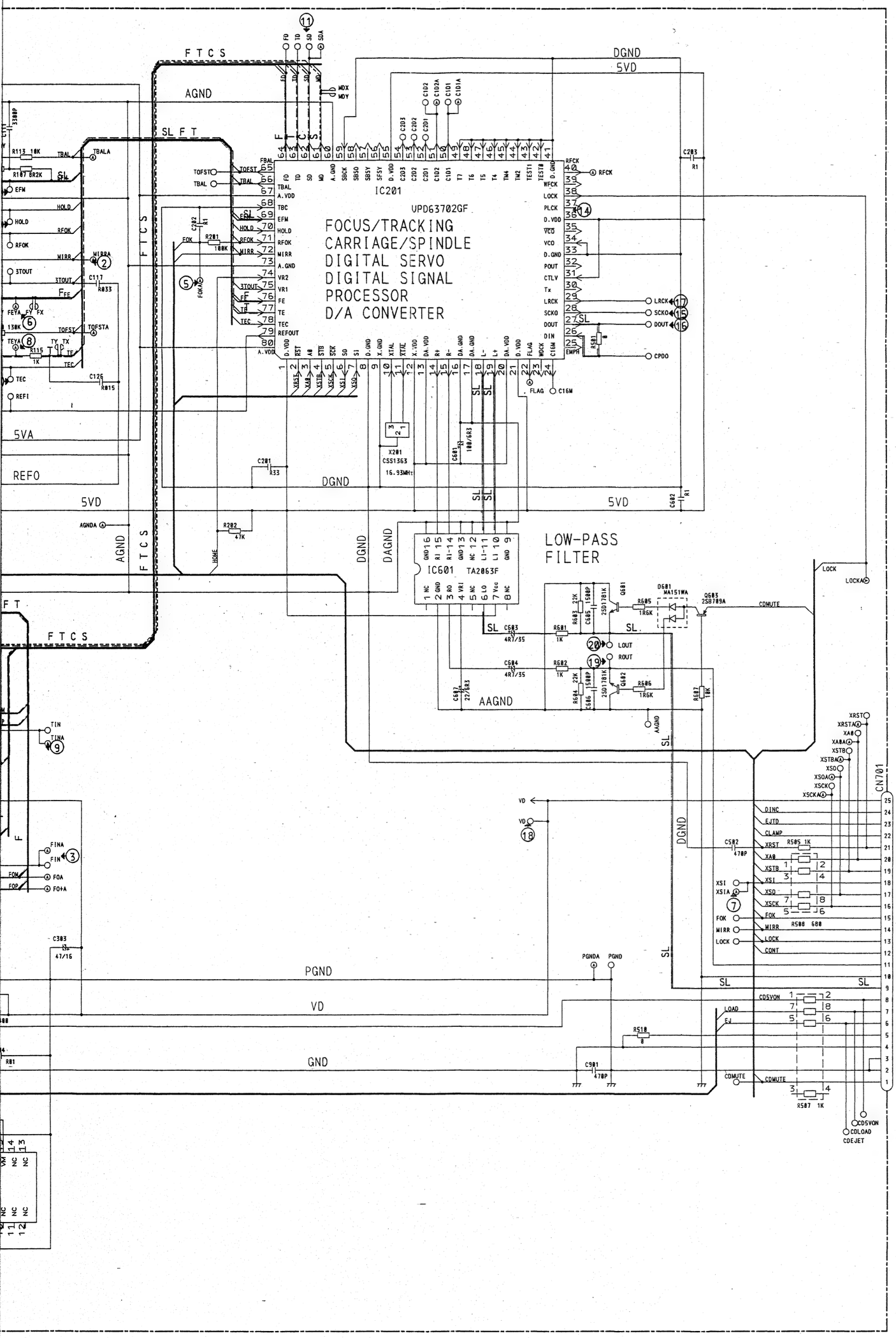
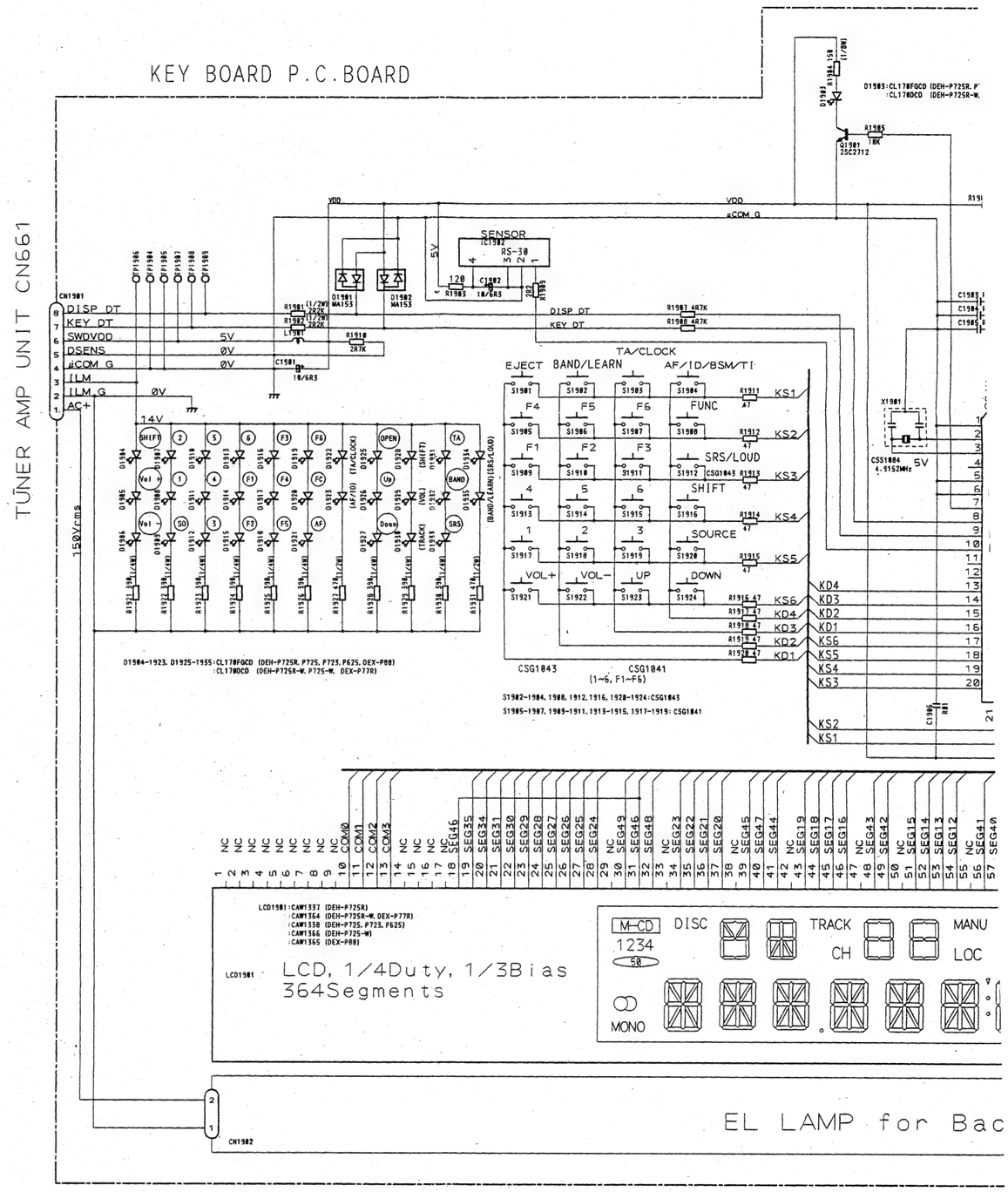

IC201
UPD63702GF
FOCUS/TRACKING
CARRIAGE/SPINDLE
DIGITAL SERVO
DIGITAL SIGNAL
PROCESSOR
D/A CONVERTER
IC601 TA2063F
LOW-PASS
FILTER
X201
CSS1363
16.93MHz
CN701
TUNER AMP UNIT
CN981
FTCS
SLFT
AGND
DGND
5VD
5VA
REFO
AAGND
PGND
VD
GND
LOCK
CDMUTE
LOUT
ROUT
FOK
MIRR
LOCK
CONT
AAGND
CD5VON
CDLOAD
CDEJET

Fig. 17

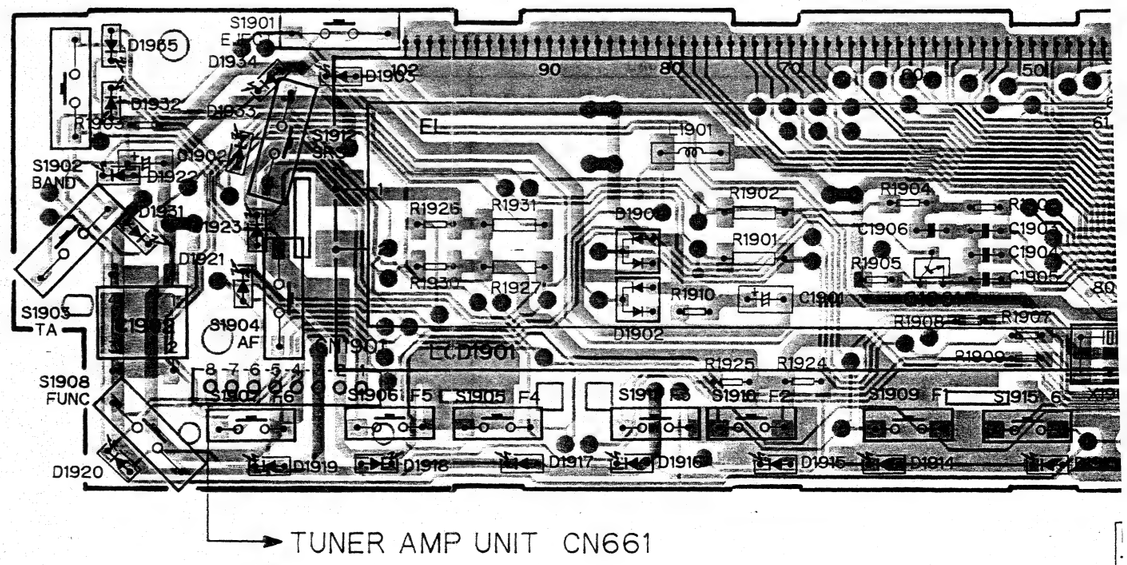
11.3 KEY BOARD P.C.BOARD

● **Circuit Diagram**



● **Connection Diagram**

IC, Q IC1902 Q1901



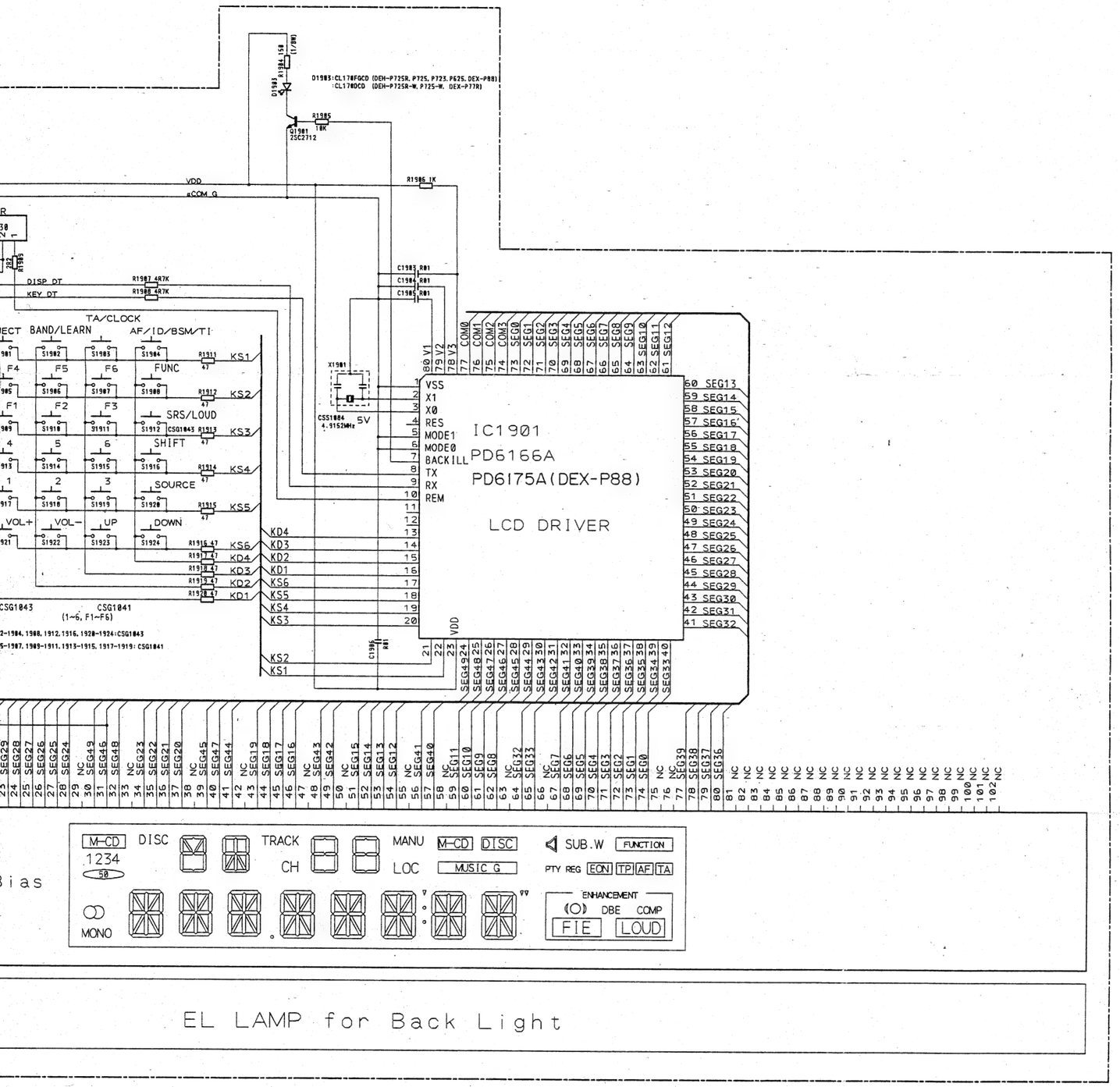
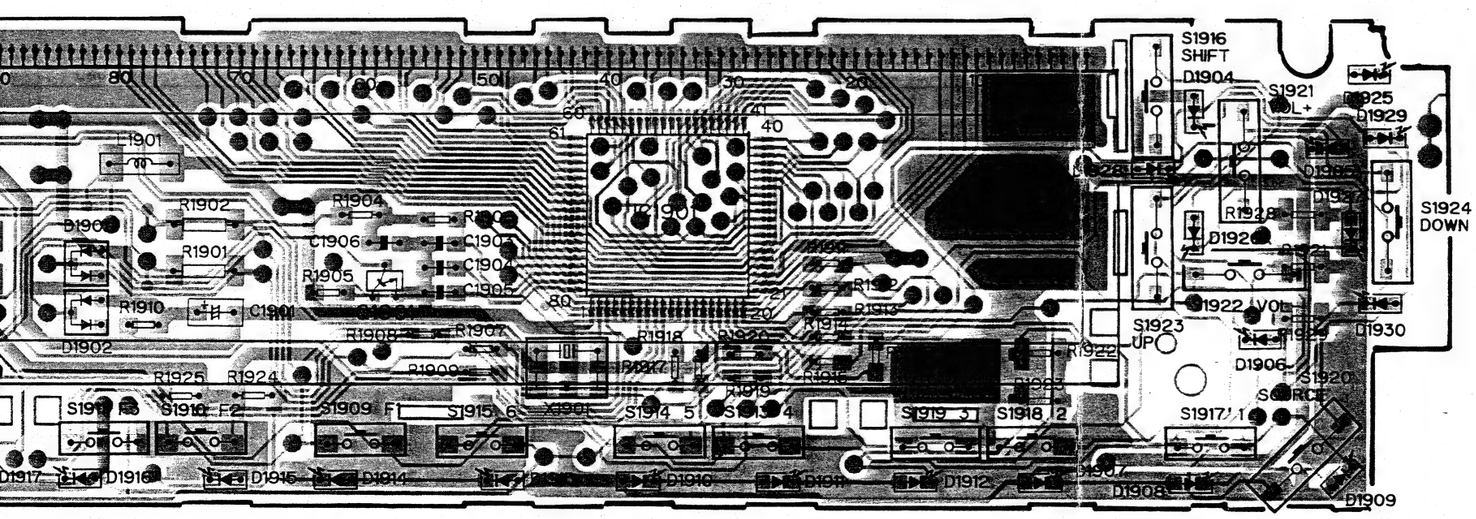


Fig. 18



NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 19

11.4 FM/AM TUNER UNIT

● **Circuit Diagram (DEH-P725R/EW, P725R-W/EW, DEX-P77R/EW)**

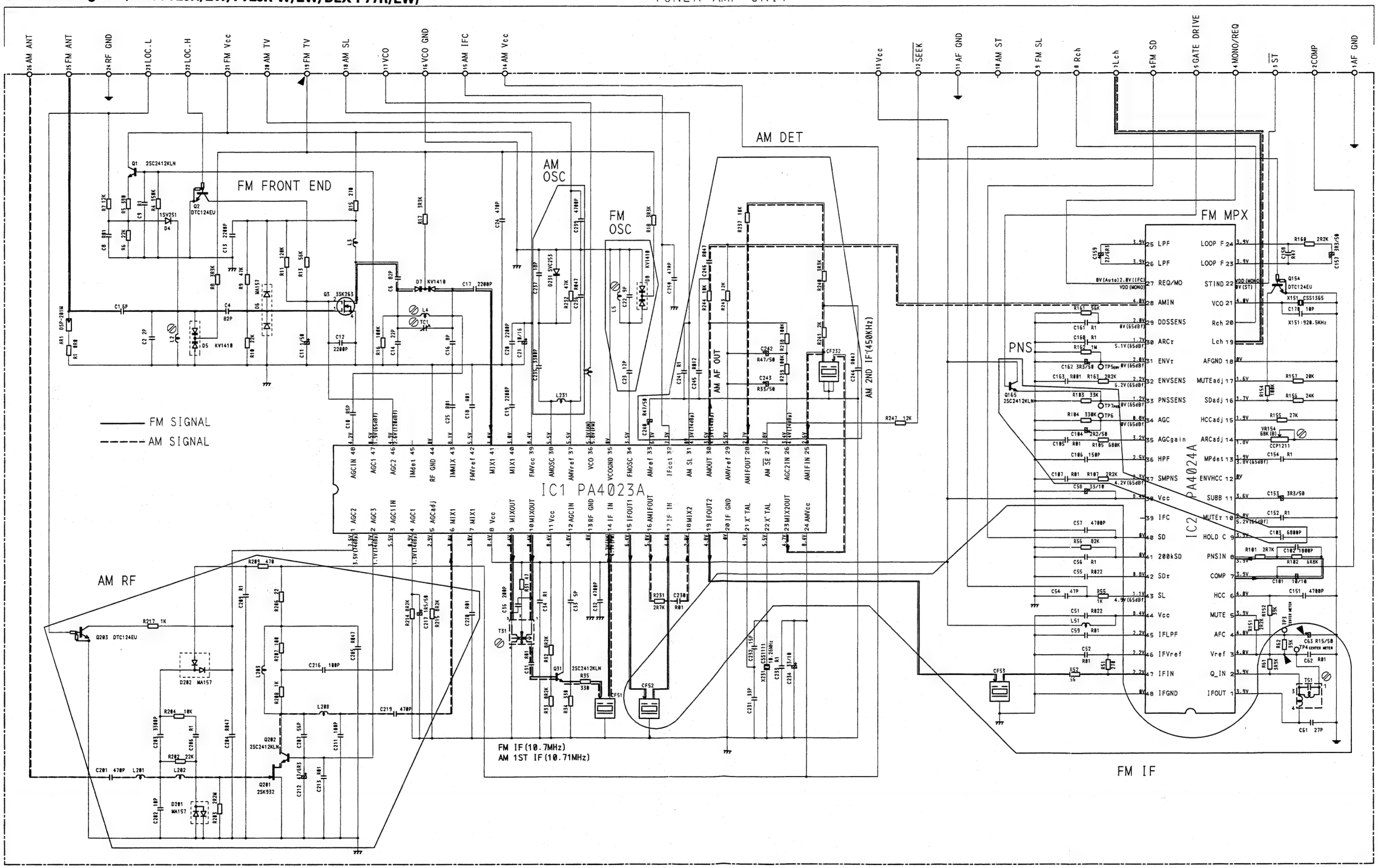


Fig. 20

● **Circuit Diagram (DEH-P725/UC, P725-W/UC, P723/ES, P625/UC, DEX-P88/UC)**

TUNER AMP UNIT

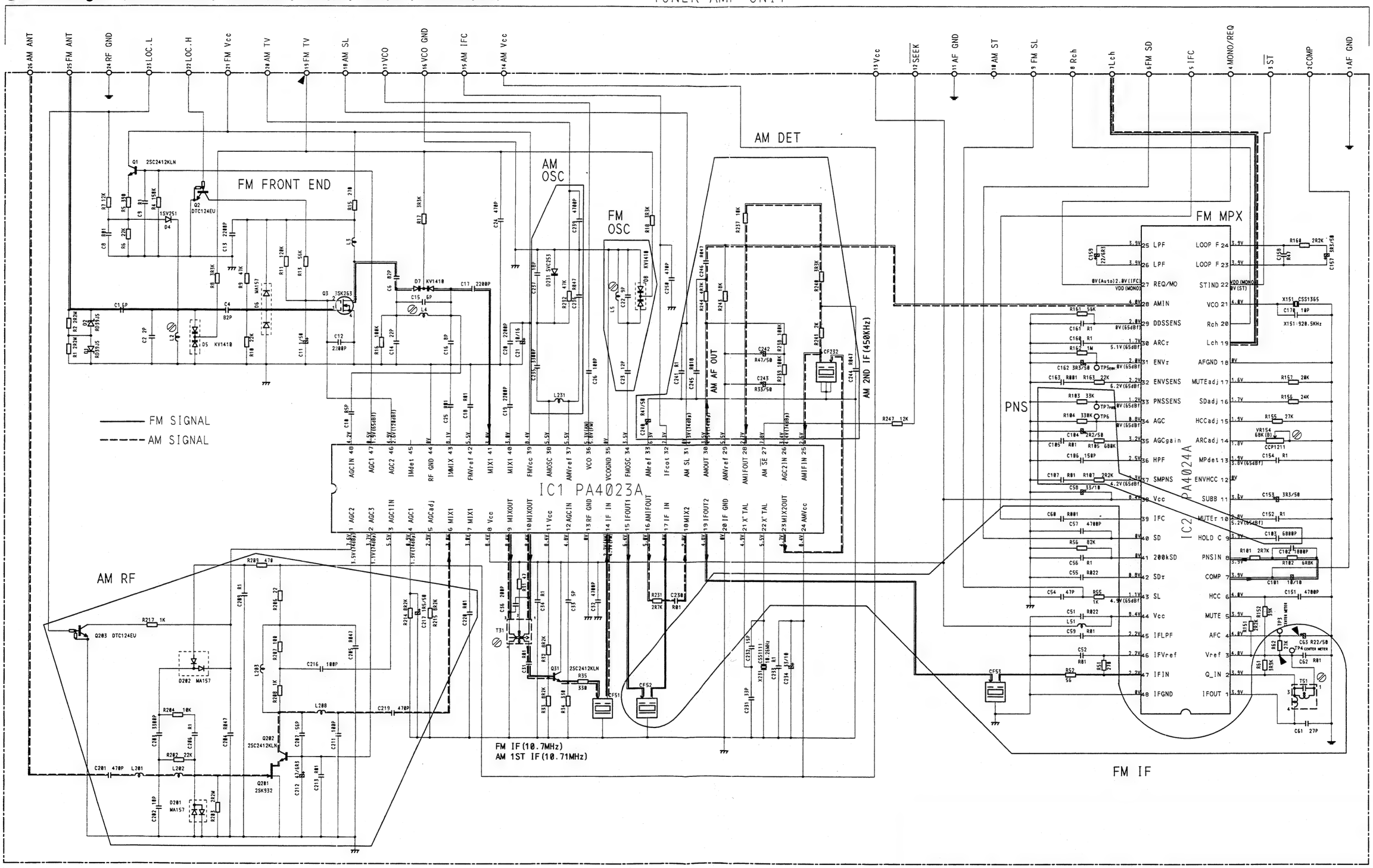
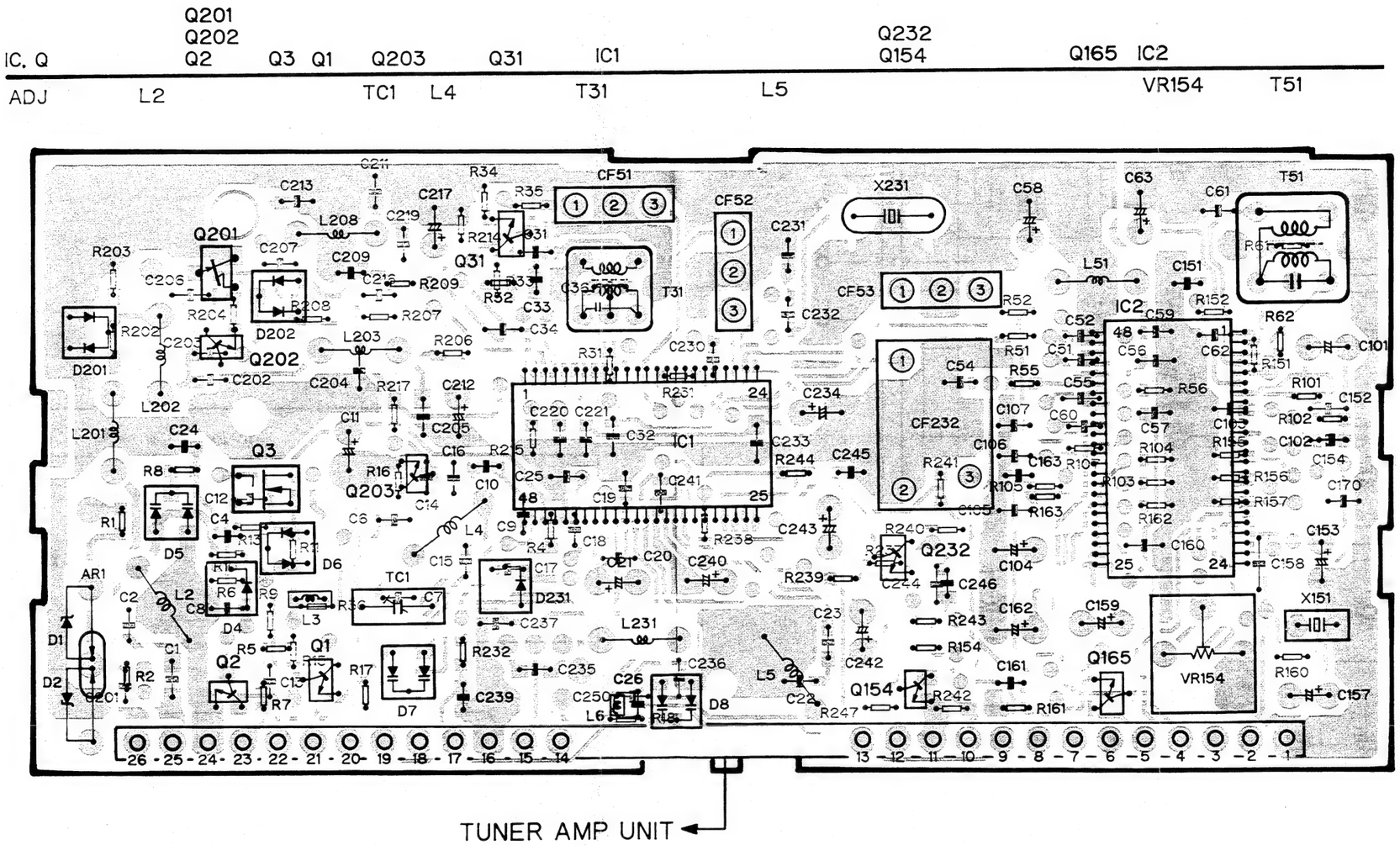


Fig. 21

● **Connection Diagram**



NOTE:
The parts mounted on this PCB include all necessary parts for several destinations.
For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 22

11.5 HIGH OUTPUT UNIT, DC-DC CONVERTER UNIT

● **Circuit Diagram (DEX-P77R/EW, P88/UC)**

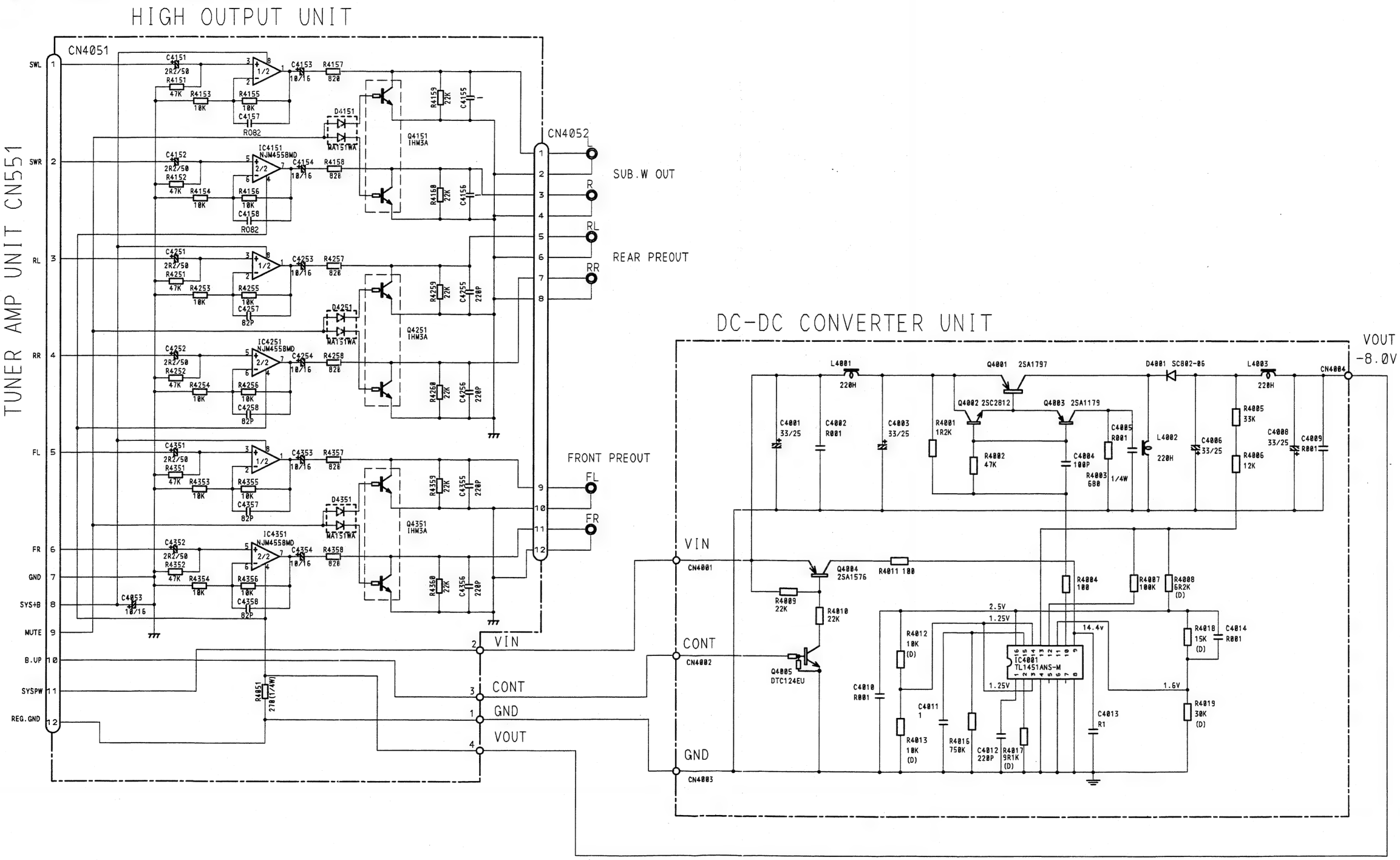
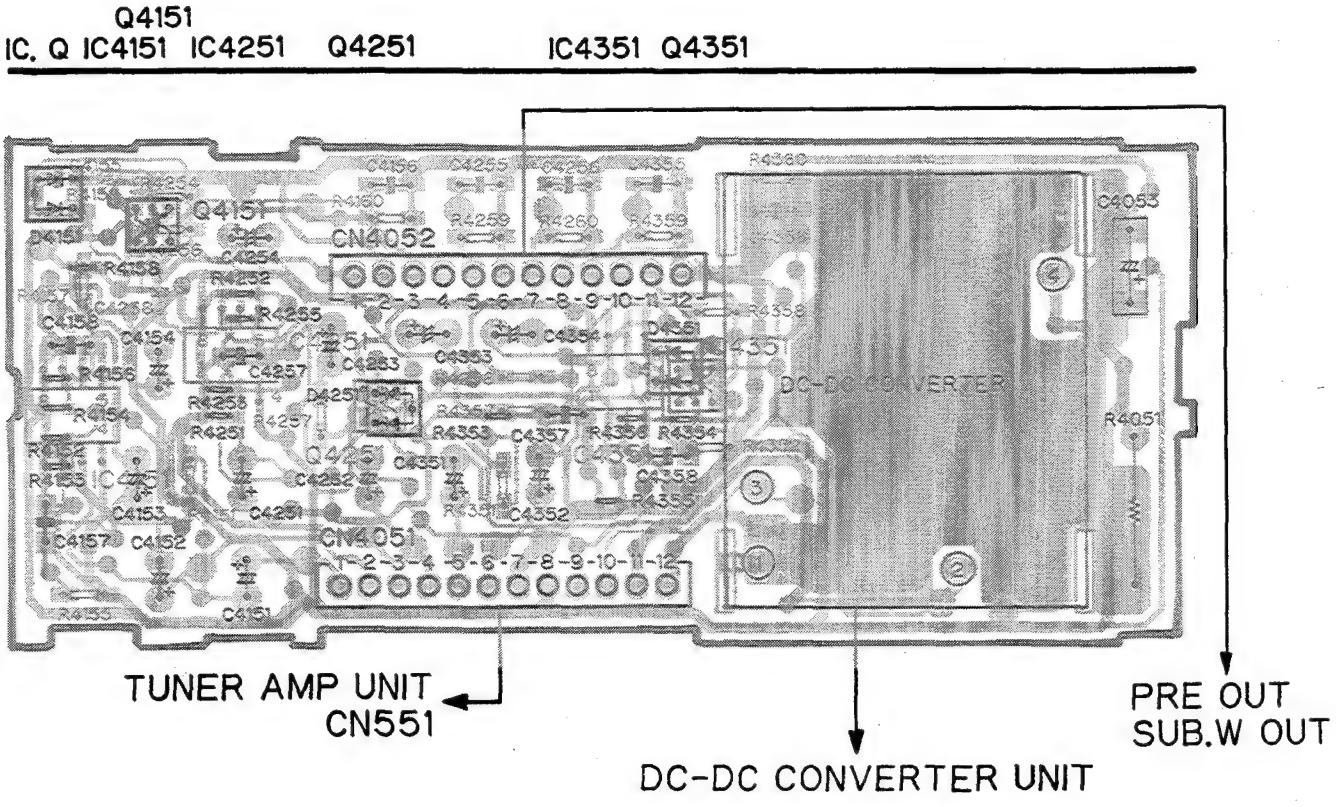


Fig.23

● Connection Diagram

HIGH OUTPUT UNIT



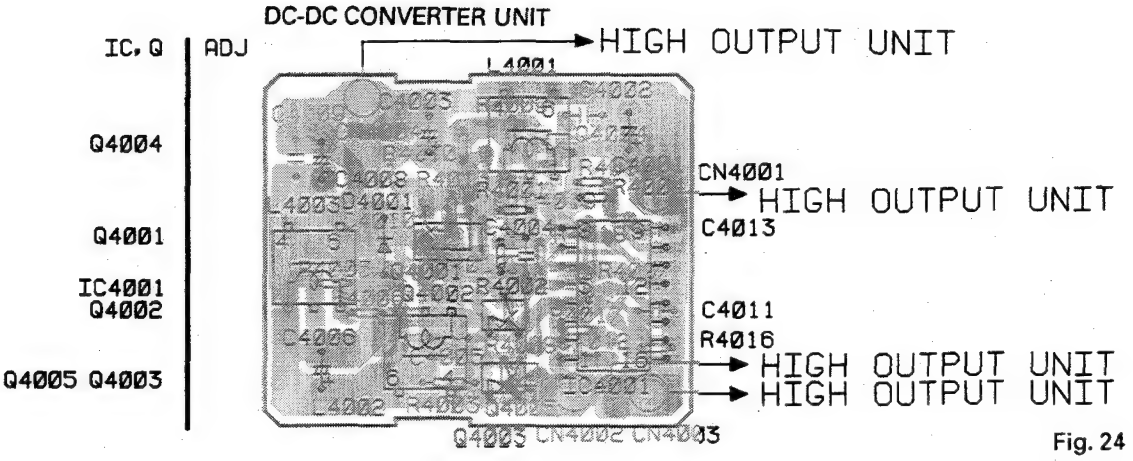


Fig. 24

12. EXPLODED VIEW AND PARTS LIST

12.1 CHASSIS

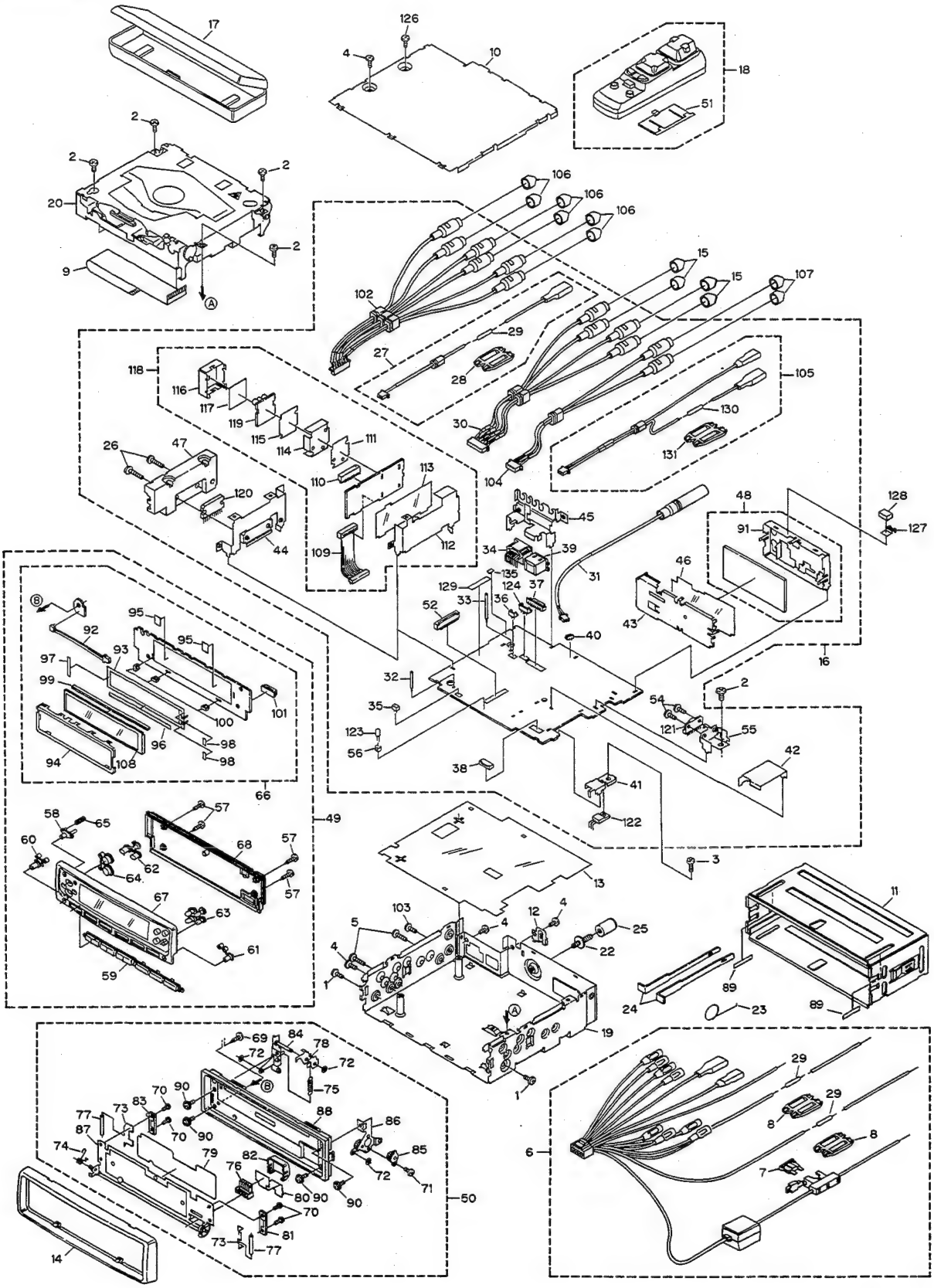


Fig. 25

● **CDE4976 (DEH-P725/UC, P725-W/UC, P625/UC)**

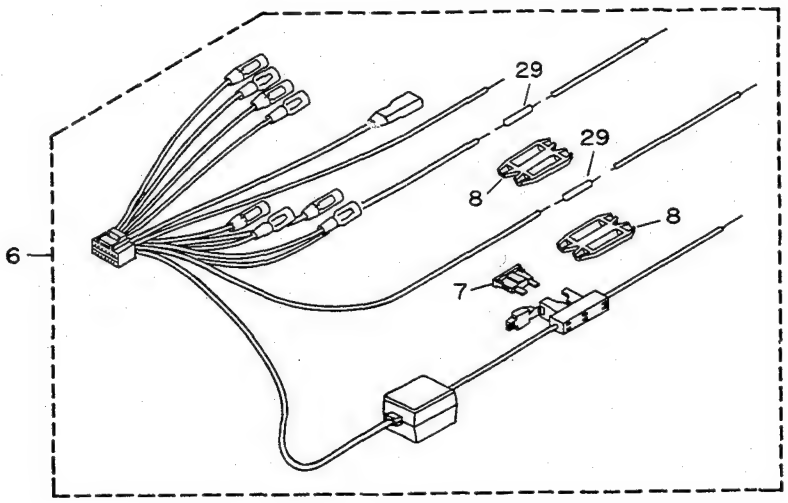


Fig. 26

● **CDE4799 (DEX-P77R/EW)**

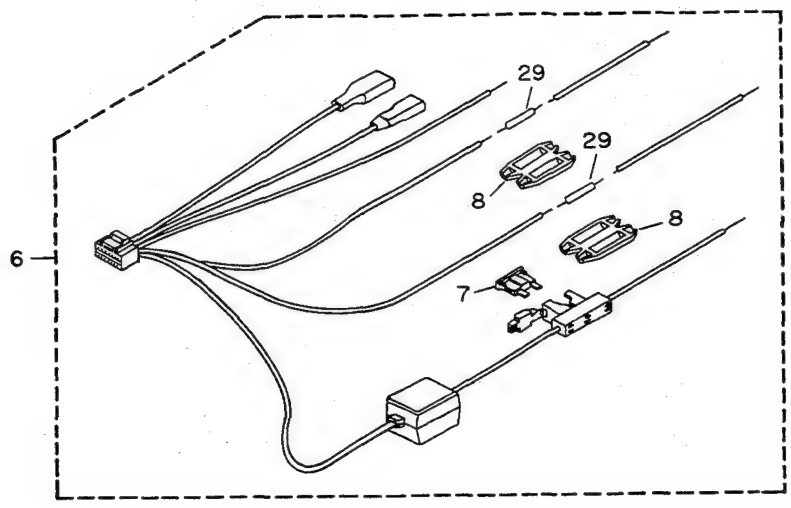


Fig. 27

● **CDE4970 (DEX-P88/UC)**

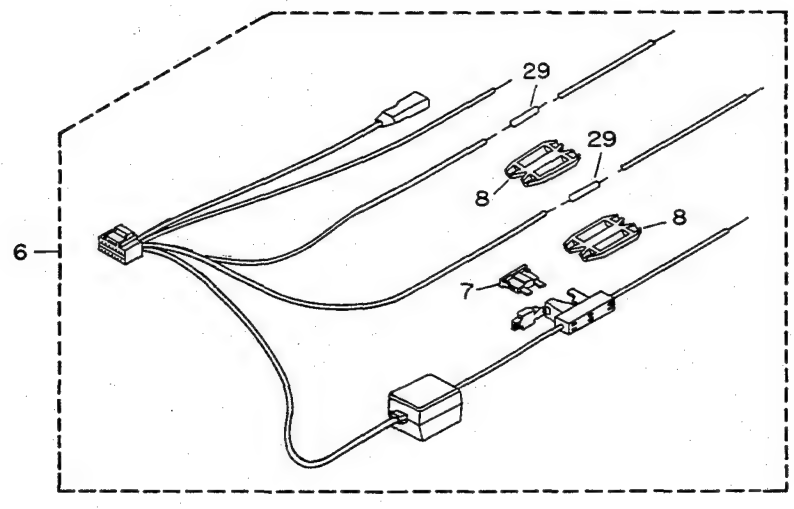


Fig. 28

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

NOTE:

● Parts marked by "＊"are generally unavailable because they are not in our Master Spare Parts List.

● **Parts List**

Mark	No.	Description	Part No.
	1	Screw	BMZ30P040FMC
	2	Screw	BSZ26P050FMC
	3	Screw	BSZ26P080FMC
	4	Screw	BSZ30P060FMC
	5	Screw	BMZ30P160FMC
	6	Cord Assy	CDE4648
	7	Fuse(10A)	CEK1136
	8	Cap	CNS1472
	9	Connector	CDE4864
	10	Case	CNB2063
	11	Holder	CNC4946
	12	Holder	CNC4963
	13	Insulator	CNM4523
	14	Panel	CNS3113
	15	Cap	CNV2680
	16	Tuner Amp Unit	CWX1916
	17	Case Assy	CXA7194
	18	Remote Control Assy	CXA8688
	19	Chassis Unit	CXA8966
	20	CD Mechanism Module	CXK5001
	21	·····	
	22	Screw	CBA1284
	23	Spring	CBH-865
	24	Handle	CNC4947
	25	Bush	CNV1009
	26	Screw	BSZ26P140FMC
	27	Cord	CDE4787
	28	Cap	CNS1472
	29	Resistor	RS1/2P102JL
	30	Cord	CDE4994
	31	Antenna Cable	CDH1146
	32	Clamper	CEF1004
	33	Clamper	CEF1006
	34	Plug(CN901)	CKM1187
	35	Plug(CN662)	CKS-783
	36	Plug(CN651)	CKS1222
	37	Plug(CN831)	CKS1242
	38	Connector(CN661)	CKS2212
	39	Connector(CN401)	CKS2480
	40	Jack(CN503)	CKX1046
	41	Holder	CNC5013
	42	Holder	CNC5968
	43	Holder	CNC6526
	44	Bracket	CNC6656
	45	Bracket	CNC6559

Mark	No.	Description	Part No.
	46	Insulator	CNM4684
	47	Heat Sink	CNR1408
	48	FM/AM Tuner Unit	CWE1416
	49	Detach Grille Assy	CXA8148
	50	Panel Assy	CXA8327
	51	Cover	CNS3477
	52	Connector(CN981)	CKS2774
	53	·····	
	54	Screw	BSZ30P060FMC
	55	Holder	CNC6141
	56	Holder	CNV1906
	57	Screw	BPZ20P080FZK
	58	Button(-)	CAC4475
	59	Button	CAC4476
	60	Button(SO)	CAC4478
	61	Button(F)	CAC4479
	62	Button	CAC4481
	63	Button	CAC4518
	64	Button(+,-)	CAC4648
	65	Spring	CBH1844
	66	Key Board Unit	CWM4444
	67	Grille Unit	CXA8355
	68	Cover Unit	CXA8707
	69	Screw	BPZ20P060FMC
	70	Screw	CBA1082
	71	Screw	CBA1176
	72	Washer	CBF1001
	73	Spring	CBH1528
	74	Spring	CBH1660
	75	Spring	CBH1696
	76	Connector	CKS2780
	77	Roller	CLA2041
	78	Arm	CNC5640
	79	Sheet	CNM4179
	80	P.C.Board	CNP3847
	81	Holder	CNV2141
	82	Cover	CNV3965
	83	Holder	CNV4105
	84	Holder Unit	CXA7077
	85	Damper Unit	CXA7714
	86	Holder Unit	CXA7794
	87	Holder Unit	CXA7959
	88	Panel Unit	CXA8347
＊	89	Spacer	CNM4888
	90	Screw	PMS20P030FZK

Mark	No.	Description	Part No.
	91	Holder	CNC6555
	92	Cord	CDE4387
	93	EL	CEL1424
	94	Holder	CNC6142
	95	Film	CNM4349
*	96	Spacer	CNM4751
*	97	Spacer	CNM4752
*	98	Spacer	CNM4753
	99	Connector	CNV4430
	100	Guide	CNV4431

Mark	No.	Description	Part No.
	101	Connector(CN1901)	CKS2733
	102-107	·····	
	108	LCD(LCD1901)	CAW1337
	109-119	·····	
	120	IC(IC551)	PAL003A
	121	IC(IC971)	PA2024A
	122	Transistor(Q983)	2SD2396
	123	Lamp(IL661)	CEL1263
	124,125	·····	
	126	Screw	BSZ30P060FMC
	127	Holder	CNC6469
	128	Cushion	CNM4387

● The DEH-P725R-W/EW, DEX-P77R/EW, DEH-P725/UC, DEH-P725-W/UC, DEH-P723/ES, DEH-P625/UC and DEX-P88/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P725R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P725R/EW Parts List is given on page 88.

Mark	No.	Description	DEH-P725R/EW Part No.	DEH-P725R-W/EW Part No.	DEX-P77R/EW Part No.	DEH-P725/UC Part No.	DEH-P725-W/UC Part No.
	5	Screw	BMZ30P160FMC	BMZ30P160FMC	·····	BMZ30P160FMC	BMZ30P160FMC
	6	Cord Assy	CDE4648	CDE4648	·····	·····	·····
	10	Case	CNB2063	CNB2063	CNB2055	CNB2063	CNB2063
	14	Panel	CNS3113	CNS3534	CNS3399	CNS3113	CNS3113
	16	Tuner Amp Unit	CWX1916	CWX1916	CWX1947	CWX1915	CWX1915
	18	Remote Control Assy	CXA8688	CXA8774	CXA8903	CXA8688	CXA8688
	19	Chassis Unit	CXA8966	CXA8801	CXA8533	CXA8361	CXA8361
	22	Screw	CBA1284	CBA1284	CBA1284	·····	·····
	26	Screw	BSZ26P140FMC	BSZ26P140FMC	·····	BSZ26P140FMC	BSZ26P140FMC
	27	Cord	CDE4787	CDE4787	CDE4787	·····	·····
	30	Cord	CDE4994	CDE4994	·····	CDE5029	CDE5029
	36	Plug(CN651)	CKS1222	CKS1222	CKS1222	·····	·····
	37	Plug(CN831)	CKS1242	CKS1242	·····	CKS1242	CKS1242
	43	Holder	CNC6526	CNC6526	CNC6526	CNC6526	CNC6526
	44	Bracket	CNC6656	CNC6656	·····	CNC6656	CNC6656
	45	Bracket	CNC6559	CNC6559	CNC6558	CNC6559	CNC6559
	46	Insulator	CNM4684	CNM4684	CNM4684	CNM4684	CNM4684
	47	Heat Sink	CNR1408	CNR1408	·····	CNR1408	CNR1408
	48	FM/AM Tuner Unit	CWE1416	CWE1416	CWE1416	CWE1417	CWE1417
	49	Detach Grille Assy	CXA8148	CXA8777	CXA8508	CXA8147	CXA8873
	50	Panel Assy	CXA8327	CXA8509	CXA8509	CXA8711	CXA8876
	59	Button	CAC4476	CAC4678	CAC4636	CAC4544	CAC4735
	60	Button(SO)	CAC4478	CAC4679	CAC4759	CAC4478	CAC4679
	61	Button(F)	CAC4479	CAC4680	CAC4760	CAC4479	CAC4680
	63	Button	CAC4518	CAC4518	CAC4620	CAC4517	CAC4517

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

Mark	No.	Description	DEH-P725R/EW Part No.	DEH-P725R-W/EW Part No.	DEX-P77R/EW Part No.	DEH-P725/UC Part No.	DEH-P725-W/UC Part No.
	64	Button (+, -)	CAC4648	CAC4758	CAC4758	CAC4648	CAC4758
	66	Key Board Unit	CWM4444	CWM4445	CWM4445	CWM4443	CWM4448
	67	Grille Unit	CXA8355	CXA8779	CXA8643	CXA8354	CXA8874
	68	Cover Unit	CXA8707	CXA8781	CXA8695	CXA8707	CXA8781
	88	Panel Unit	CXA8347	CXA8696	CXA8696	CXA8708	CXA8875
	102	Cord	•••••	•••••	CDE4801	•••••	•••••
	103	Screw	•••••	•••••	BSZ30P060FMC	•••••	•••••
	104	Cord	•••••	•••••	•••••	CDE4995	CDE4995
	105	Cord	•••••	•••••	•••••	•••••	•••••
	106	Cap	•••••	•••••	CNV2680	•••••	•••••
	107	Cap	•••••	•••••	•••••	CNV2680	CNV2680
	108	LCD(LCD1901)	CAW1337	CAW1364	CAW1364	CAW1338	CAW1366
	109	Cord(CN4051)	•••••	•••••	CDE4807	•••••	•••••
	110	Plug(CN4052)	•••••	•••••	CKS1059	•••••	•••••
	111	Insulator	•••••	•••••	CNM4760	•••••	•••••
	112	Holder	•••••	•••••	CNC6143	•••••	•••••
	113	Insulator	•••••	•••••	CNM4573	•••••	•••••
	114	Shield	•••••	•••••	CNC6274	•••••	•••••
	115	Insulator	•••••	•••••	CNM4814	•••••	•••••
	116	Shield	•••••	•••••	CNC6224	•••••	•••••
	117	Insulator	•••••	•••••	CNM4610	•••••	•••••
	118	High Output Unit	•••••	•••••	CWX1922	•••••	•••••
	119	DC-DC Converter Unit	•••••	•••••	CWM4538	•••••	•••••
	120	IC(IC551)	PAL003A	PAL003A	•••••	PAL003A	PAL003A
	124	Plug(CN832)	•••••	•••••	•••••	CKS1238	CKS1238
	126	Screw	BSZ30P060FMC	BSZ30P060FMC	•••••	BSZ30P060FMC	BSZ30P060FMC
	129	Insulator	•••••	•••••	CNM4815	•••••	•••••
	130	Resistor	•••••	•••••	•••••	•••••	•••••
	131	Cap	•••••	•••••	•••••	•••••	•••••
	132	Cord Assy	•••••	•••••	•••••	CDE4976	CDE4976
	133	Cord	•••••	•••••	CDE4799	•••••	•••••
	134	Cord	•••••	•••••	•••••	•••••	•••••
	135	Spacer	•••••	•••••	CNM4868	•••••	•••••

Mark	No.	Description	DEH-P725R/EW Part No.	DEH-P723/ES Part No.	DEH-P625/UC Part No.	DEX-P88/UC Part No.
	5	Screw	BMZ30P160FMC	BMZ30P160FMC	BMZ30P160FMC	•••••
	6	Cord Assy	CDE4648	CDE4648	•••••	•••••
	10	Case	CNB2063	CNB2063	CNB2063	CNB2055
	14	Panel	CNS3113	CNS3113	CNS3113	CNS3113
	16	Tuner Amp Unit	CWX1916	CWX1917	CWX1919	CWX1914
	18	Remote Control Assy	CXA8688	CXA8688	•••••	CXA8688
	19	Chassis Unit	CXA8966	CXA8361	CXA8361	CXA8532
	22	Screw	CBA1284	•••••	•••••	•••••
	26	Screw	BSZ26P140FMC	BSZ26P140FMC	BSZ26P140FMC	•••••
	27	Cord	CDE4787	CDE4787	•••••	•••••
	30	Cord	CDE4994	CDE4994	CDE4994	•••••
	36	Plug(CN651)	CKS1222	CKS1222	•••••	CKS1222
	37	Plug(CN831)	CKS1242	CKS1242	CKS1242	•••••
	43	Holder	CNC6526	•••••	•••••	•••••
	44	Bracket	CNC6656	CNC6656	CNC6656	•••••

Mark	No.	Description	DEH-P725R/EW Part No.	DEH-P723/ES Part No.	DEH-P625/UC Part No.	DEX-P88/UC Part No.
	45	Bracket	CNC6559	CNC6559	CNC6560	CNC6558
	46	Insulator	CNM4684	CNM4684	·····	·····
	47	Heat Sink	CNR1408	CNR1408	CNR1408	·····
	48	FM/AM Tuner Unit	CWE1416	CWE1417	CWE1417	CWE1417
	49	Detach Grille Assy	CXA8148	CXA8149	CXA8151	CXA8146
	50	Panel Assy	CXA8327	CXA8327	CXA8711	CXA8327
	59	Button	CAC4476	CAC4545	CAC4545	CAC4545
	60	Button(SO)	CAC4478	CAC4478	CAC4478	CAC4478
	61	Button(F)	CAC4479	CAC4479	CAC4479	CAC4479
	63	Button	CAC4518	CAC4519	CAC4521	CAC4521
	64	Button (+, -)	CAC4648	CAC4648	CAC4648	CAC4648
	66	Key Board Unit	CWM4444	CWM4443	CWM4443	CWM4443
	67	Grille Unit	CXA8355	CXA8356	CXA8358	CXA8359
	68	Cover Unit	CXA8707	CXA8707	CXA8707	CXA8707
	88	Panel Unit	CXA8347	CXA8347	CXA8708	CXA8347
	102	Cord	·····	·····	·····	CDE4801
	103	Screw	·····	·····	·····	BSZ30P060FMC
	104	Cord	·····	·····	·····	·····
	105	Cord	·····	·····	·····	CDE4786
	106	Cap	·····	·····	·····	CNV2680
	107	Cap	·····	·····	·····	·····
	108	LCD(LCD1901)	CAW1337	CAW1338	CAW1338	CAW1365
	109	Cord(CN4051)	·····	·····	·····	CDE4807
	110	Plug(CN4052)	·····	·····	·····	CKS1059
	111	Insulator	·····	·····	·····	CNM4760
	112	Holder	·····	·····	·····	CNC6143
	113	Insulator	·····	·····	·····	CNM4573
	114	Shield	·····	·····	·····	CNC6274
	115	Insulator	·····	·····	·····	CNM4814
	116	Shield	·····	·····	·····	CNC6224
	117	Insulator	·····	·····	·····	CNM4610
	118	High Output Unit	·····	·····	·····	CWX1922
	119	DC-DC Converter Unit	·····	·····	·····	CWX4538
	120	IC(IC551)	PAL003A	PAL003A	PAL003A	·····
	124	Plug(CN832)	·····	·····	·····	·····
	126	Screw	BSZ30P060FMC	BSZ30P060FMC	BSZ30P060FMC	·····
	129	Insulator	·····	·····	·····	CNM4815
	130	Resistor	·····	·····	·····	RS1/2P102JL
	131	Cap	·····	·····	·····	CNS1472
	132	Cord Assy	·····	·····	CDE4976	·····
	133	Cord	·····	·····	·····	·····
	134	Cord	·····	·····	·····	CDE4970
	135	Spacer	·····	·····	·····	CNM4868

12.2 CD MECHANISM MODULE

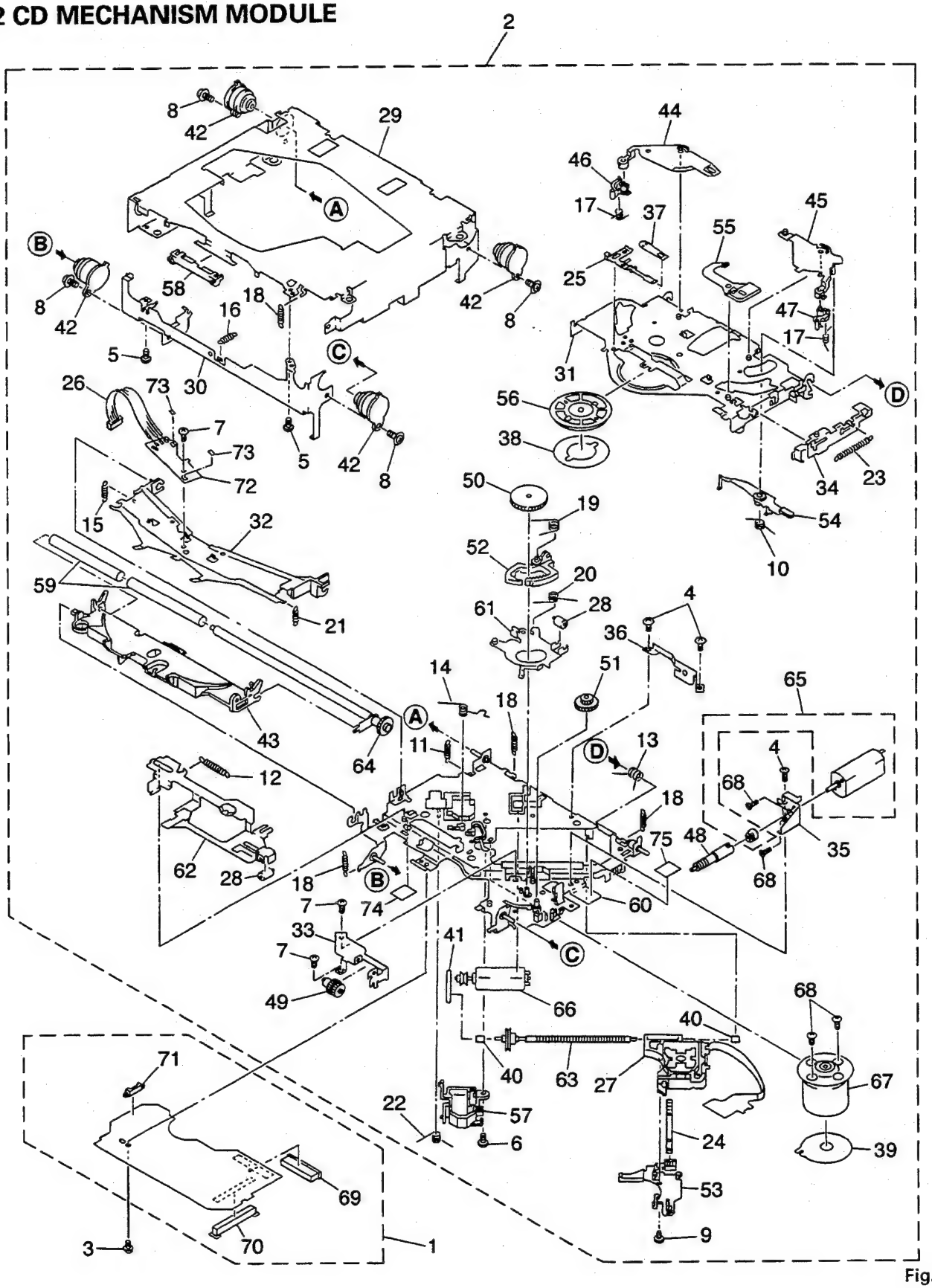


Fig. 29

● Parts List

Mark	No.	Description	Part No.
	1	Control Unit	CWX1889
	2	CD Mechanism Unit	CXA8870
	3	Screw	PMS26P035FMC
	4	Screw	BMZ20P030FMC
	5	Screw	BSZ20P040FMC
	6	Screw(M2×3)	CBA1077
	7	Screw(M2×2)	CBA1250
	8	Screw(M2×5)	CBA1296
	9	Screw(M2×3.85)	CBA1362
	10	Spring	CBH1916
	11	Spring	CBH1724
	12	Spring	CBH1727
	13	Spring	CBH1729
	14	Spring	CBH1730
	15	Spring	CBH1731
	16	Spring	CBH1732
	17	Spring	CBH1736
	18	Spring	CBH1745
	19	Spring	CBH1832
	20	Spring	CBH1833
	21	Spring	CBH1848
	22	Spring	CBH1849
	23	Spring	CBH1863
	24	Spring	CBL1214
	25	Spring	CBL1269
	26	Connector(CN1)	CDE4576
	27	PU Unit	CGY1070
	28	Roller	CLA2627
	29	Frame	CNC5796
	30	Frame	CNC5797
	31	Arm	CNC5799
*	32	Arm	CNC5801
	33	Bracket	CNC5871
	34	Lever	CNC6054
	35	Bracket	CNC6056
*	36	Bracket	CNC6376
	37	Spacer	CNM3315
	38	Sheet	CNM4849
	39	P.C.Board	CNP4230
	40	Bearing	CNR1415
	41	Belt	CNT1071
	42	Damper	CNV3974
	43	Arm	CNV4120
	44	Arm	CNV4122
	45	Arm	CNV4123
	46	Arm	CNV4124
	47	Arm	CNV4125
	48	Gear	CNV4128
	49	Gear	CNV4129
	50	Gear	CNV4130
	51	Gear	CNV4131
	52	Arm	CNV4136
	53	Holder	CNV4663
	54	Arm	CNV4138
	55	Arm	CNV4139
	56	Clamper	CNV4140
	57	Holder	CNV4664
	58	Guide	CNV4484
	59	Roller	CNV4509
	60	Chassis Unit	CXA8561
	61	Arm Unit	CXA8565
	62	Lever Unit	CXA8567
	63	Screw Unit	CXA8699
	64	Gear Unit	CXA8701
	65	Load Motor Unit(M3)	CXA8702
	66	CRG Motor Unit(M2)	CXA8986
	67	Motor Unit(M1)	CXA9100
	68	Screw	JFZ20P025FMC
	69	Connector(CN101)	CKS1953
	70	Connector(CN701)	CKS2774
	71	Connector(CN801)	CKS2196
*	72	Gathering P.C.Board	CNX2445
	73	Photo-transistor(Q1, 2)	CPT-230S-X
	74	Sheet	CNM4873
	75	Cushion	CNM3917

13. PACKING METHOD

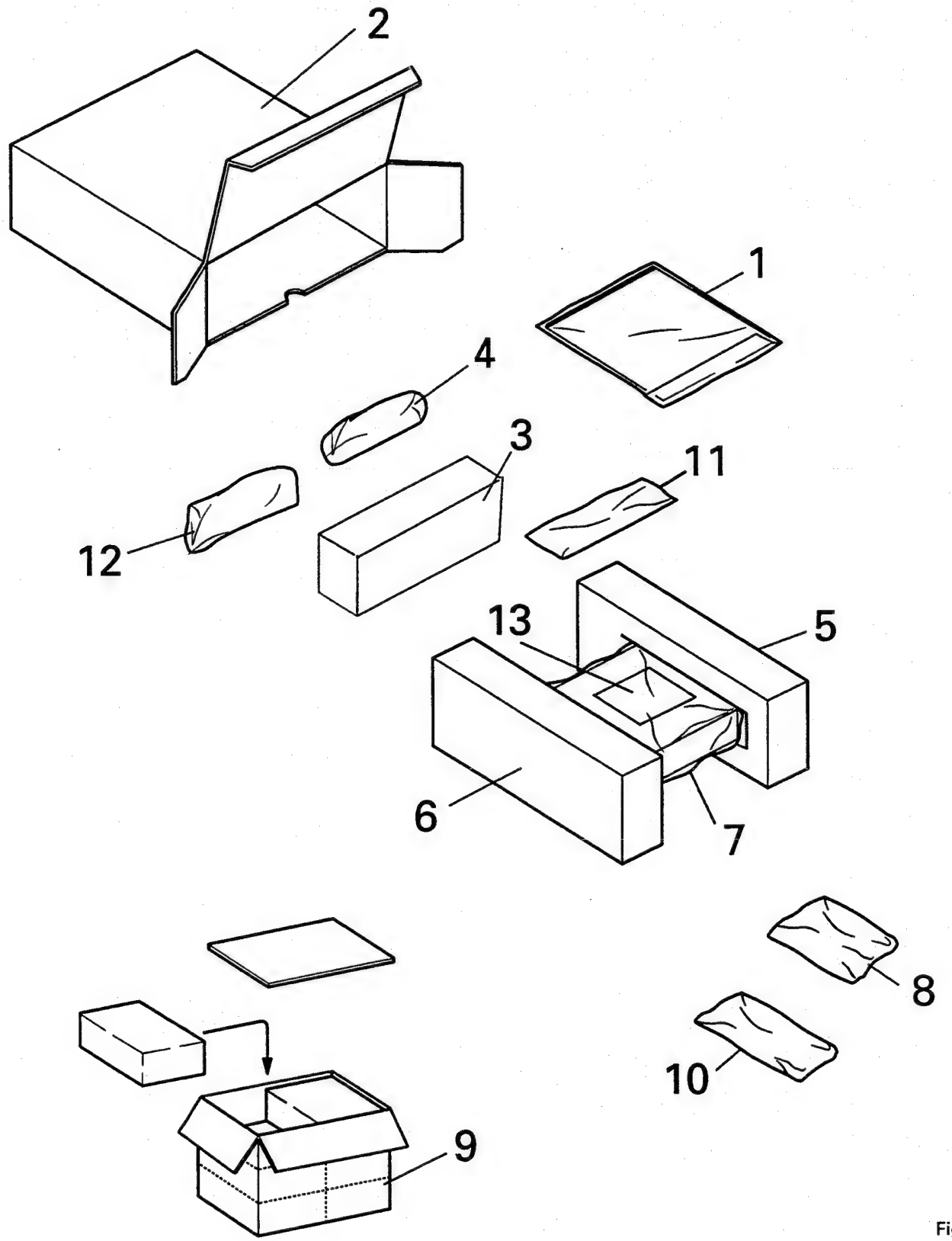


Fig.30

● **Accessory Assy**

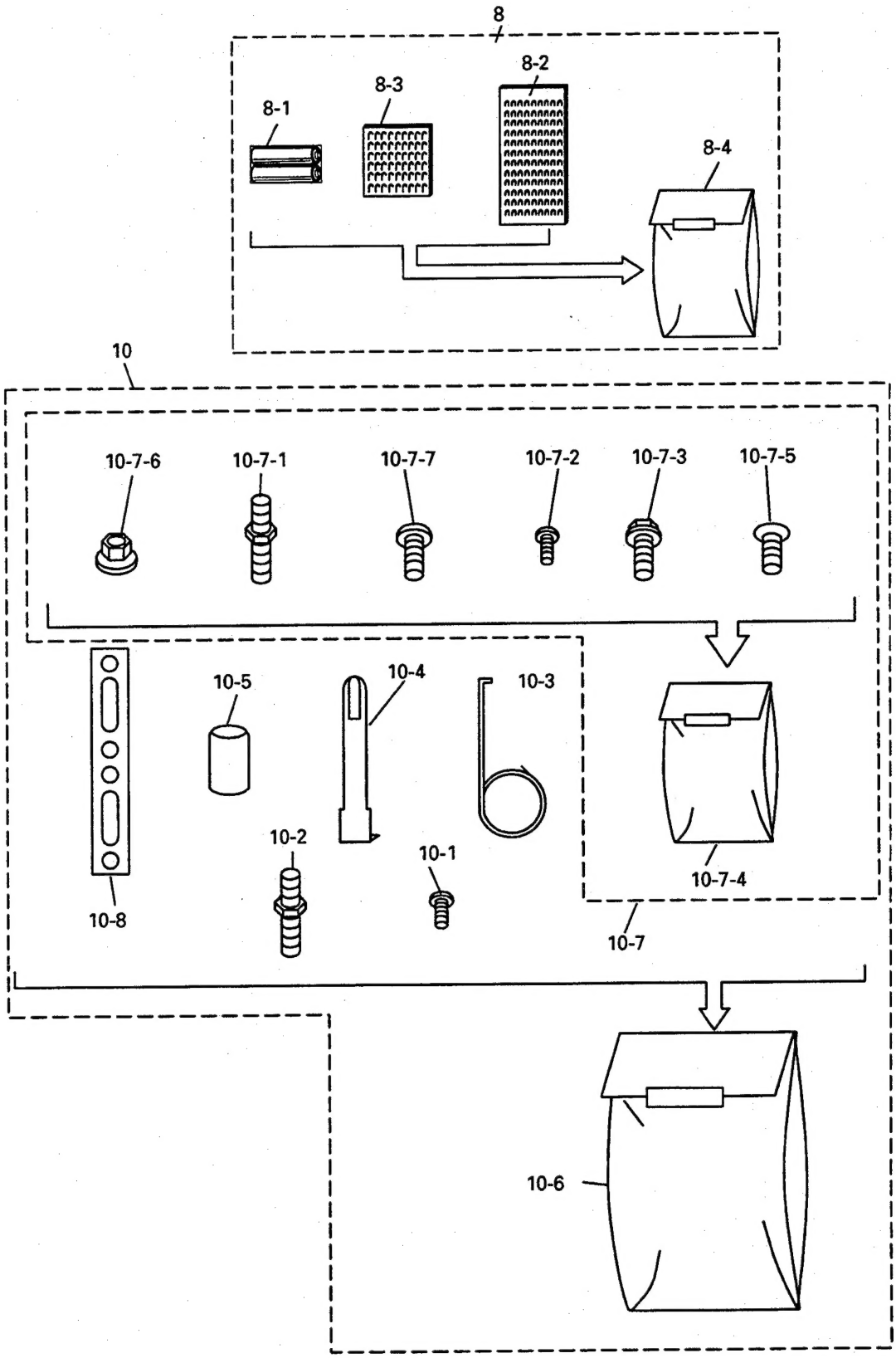


Fig.31

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● Parts List

Mark	No.	Description	DEH-P725R/EW Part No.	DEH-P725R-W/EW Part No.	DEX-P77R/EW Part No.	DEH-P725/UC Part No.	DEH-P725-W/UC Part No.
	1-1	Polyethylene Bag	CEG1116	CEG1116	CEG1116	CEG1116	CEG1116
	1-2	Owner's Manual	CRD1933	CRD1933	CRD1992	CRD1937	CRD1937
	1-3	Owner's Manual	CRD1934	CRD1934	CRD1993	•••••	•••••
	1-4	Owner's Manual	CRD1991	CRD1991	CRD1994	•••••	•••••
	1-5	Installation Manual	CRD2033	CRD2033	CRD2035	CRD1979	CRD1979
*	1-6	Passport	CRY1013	CRY1013	CRY1013	•••••	•••••
*	1-7	Warranty Card	CRY1087	CRY1087	CRY1087	•••••	•••••
	1-8	Chart	•••••	•••••	•••••	CRB1376	CRB1376
*	1-9	Card	•••••	•••••	•••••	ARY1048	ARY1048
*	1-10	Caution Card	•••••	•••••	CRP1144	•••••	•••••
	2	Carton	CHG2835	CHG2871	CHG2838	CHG2837	CHG2969
	3	Spacer	CHW1433	CHW1433	CHW1433	CHW1433	CHW1433
	4	Remote Control Assy	CXA8688	CXA8774	CXA8903	CXA8688	CXA8774
	5	Protector	CHP1766	CHP1766	CHP1766	CHP1766	CHP1766
	6	Protector	CHP1767	CHP1767	CHP1767	CHP1767	CHP1767
	7	Polyethylene Bag	CEG-162	CEG-162	CEG-162	CEG1173	CEG1173
	8	Accessory Assy	CEA2081	CEA2081	CEA2081	CEA2081	CEA2081
	8-1	Battery	CEX1006	CEX1006	CEX1006	CEX1006	CEX1006
	8-2	Fastener	CNM3729	CNM3729	CNM3729	CNM3729	CNM3729
	8-3	Fastener(X2)	CNM4256	CNM4256	CNM4256	CNM4256	CNM4256
*	8-4	Polyethylene Bag	E36-615	E36-615	E36-615	E36-615	E36-615
	9	Contain Box	CHL2835	CHL2871	CHL2838	CHL2837	CHL2969
	10	Accessory Assy	CEA2065	CEA2065	CEA2065	CEA2066	CEA2066
	10-1	Screw	CBA1120	CBA1120	CBA1120	•••••	•••••
	10-2	Screw	CBA1284	CBA1284	CBA1284	•••••	•••••
	10-3	Spring	CBH-865	CBH-865	CBH-865	CBH-865	CBH-865
	10-4	Handle(X2)	CNC4947	CNC4947	CNC4947	CNC4947	CNC4947
	10-5	Bush	CNV1009	CNV1009	CNV1009	CNV1009	CNV1009
	10-6	Polyethylene Bag	E36-615	E36-615	E36-615	CEG-158	CEG-158
	10-7	Screw Assy	•••••	•••••	•••••	CEA2068	CEA2068
	10-7-1	Screw	•••••	•••••	•••••	CBA1284	CBA1284
	10-7-2	Screw	•••••	•••••	•••••	CBA1120	CBA1120
	10-7-3	Screw	•••••	•••••	•••••	CBA-102	CBA-102
*	10-7-4	Polyethylene Bag	•••••	•••••	•••••	CEG-127	CEG-127
	10-7-5	Screw(X4)	•••••	•••••	•••••	CRZ50P090FMC	CRZ50P090FMC
	10-7-6	Nut(X2)	•••••	•••••	•••••	NF50FMC	NF50FMC
	10-7-7	Screw(X4)	•••••	•••••	•••••	TRZ50P080FMC	TRZ50P080FMC
	10-8	Strap	•••••	•••••	•••••	CNF-111	CNF-111
	11	Cord Assy	CDE4648	CDE4648	•••••	CDE4976	CDE4976
	11	Cord	•••••	•••••	CDE4799	•••••	•••••
	12	Case Assy	CXA7194	CXA7194	CXA7194	CXA7194	CXA7194
*	13	Caution Card	CRP1145	CRP1145	CRP1145	CRP1145	CRP1145

Mark	No.	Description	DEH-P723/ES Part No.	DEH-P625/UC Part No.	DEX-P88/UC Part No.
	1-1	Polyethylene Bag	CEG1116	CEG1116	CEG1116
	1-2	Owner's Manual	CRD1939	CRD1938	CRD1936
	1-3	Owner's Manual	•••••	•••••	•••••
	1-4	Owner's Manual	CRD1995	•••••	•••••
	1-5	Installation Manual	CRD1981	CRD1982	CRD1978
*	1-6	Passport	•••••	•••••	•••••
*	1-7	Warranty Card	•••••	•••••	CRY1070
	1-8	Chart	•••••	•••••	•••••
*	1-9	Card	•••••	ARY1048	•••••
*	1-10	Caution Card	•••••	•••••	CRP1144
	2	Carton	CHG2836	CHG2839	CHG2840
	3	Spacer	CHW1433	•••••	CHW1433
	4	Remote Control Assy	CXA8688	•••••	CXA8688
	5	Protector	CHP1766	CHP1766	CHP1766
	6	Protector	CHP1767	CHP1767	CHP1767
	7	Polyethylene Bag	CEG-162	CEG1173	CEG1173
	8	Accessory Assy	CEA2081	•••••	CEA2081
	8-1	Battery	CEX1006	•••••	CEX1006
	8-2	Fastener	CNM3729	•••••	CNM3729
	8-3	Fastener(X2)	CNM4256	•••••	CNM4256
*	8-4	Polyethylene Bag	E36-615	•••••	E36-615
	9	Contain Box	CHL2836	CHL2839	CHL2840
	10	Accessory Assy	CEA2067	CEA2066	CEA2066
	10-1	Screw	•••••	•••••	•••••
	10-2	Screw	•••••	•••••	•••••
	10-3	Spring	CBH-865	CBH-865	CBH-865
	10-4	Handle(X2)	CNC4947	CNC4947	CNC4947
	10-5	Bush	CNV1009	CNV1009	CNV1009
	10-6	Polyethylene Bag	CEG-158	CEG-158	CEG-158
	10-7	Screw Assy	CEA2069	CEA2068	CEA2068
	10-7-1	Screw	CBA1284	CBA1284	CBA1284
	10-7-2	Screw	CBA1120	CBA1120	CBA1120
	10-7-3	Screw	•••••	CBA-102	CBA-102
*	10-7-4	Polyethylene Bag	CEG-127	CEG-127	CEG-127
	10-7-5	Screw(X4)	CRZ50P090FMC	CRZ50P090FMC	CRZ50P090FMC
	10-7-6	Nut(X2)	•••••	NF50FMC	NF50FMC
	10-7-7	Screw(X4)	TRZ50P080FMC	TRZ50P080FMC	TRZ50P080FMC
	10-8	Strap	•••••	CNF-111	CNF-111
	11	Cord Assy	CDE4648	CDE4976	•••••
	11	Cord	•••••	•••••	CDE4970
	12	Case Assy	CXA7194	CXA7194	CXA7194
*	13	Caution Card	CRP1145	CRP1145	CRP1145

DEH-P725R,P725R-W,P725,P725-W,P723,P625, DEX-P88,P77R

● Owner's Manual

Model	Part No.	Language
DEH-P725R/EW DEH-P725R-W/EW	CRD1933	English, Spanish
	CRD1934	French, German
	CRD1991	Italian, Dutch
DEX-P77R/EW	CRD1992	English, Spanish
	CRD1993	French, German
	CRD1994	Italian, Dutch
DEH-P725/UC, DEH-P725-W/UC	CRD1937	English, French
DEH-P723/ES	CRD1939	English, Arabic
	CRD1995	French, Spanish
DEH-P625/UC	CRD1938	English, French
DEX-P88/UC	CRD1936	English, French

● Installation Manual

Model	Part No.	Language
DEH-P725R/EW, DEH-P725R-W/EW	CRD2033	English, Spanish, French, German, Italian, Dutch
DEX-P77R/EW	CRD2035	English, Spanish, French, German, Italian, Dutch
DEH-P725/UC, DEH-P725-W/UC	CRD1979	English, French
DEH-P723/ES	CRD1981	English, Arabic, French, Spanish
DEH-P625/UC	CRD1982	English, French
DEX-P88/UC	CRD1978	English, French